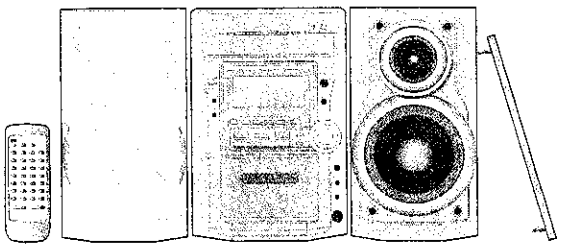
CD Stereo System

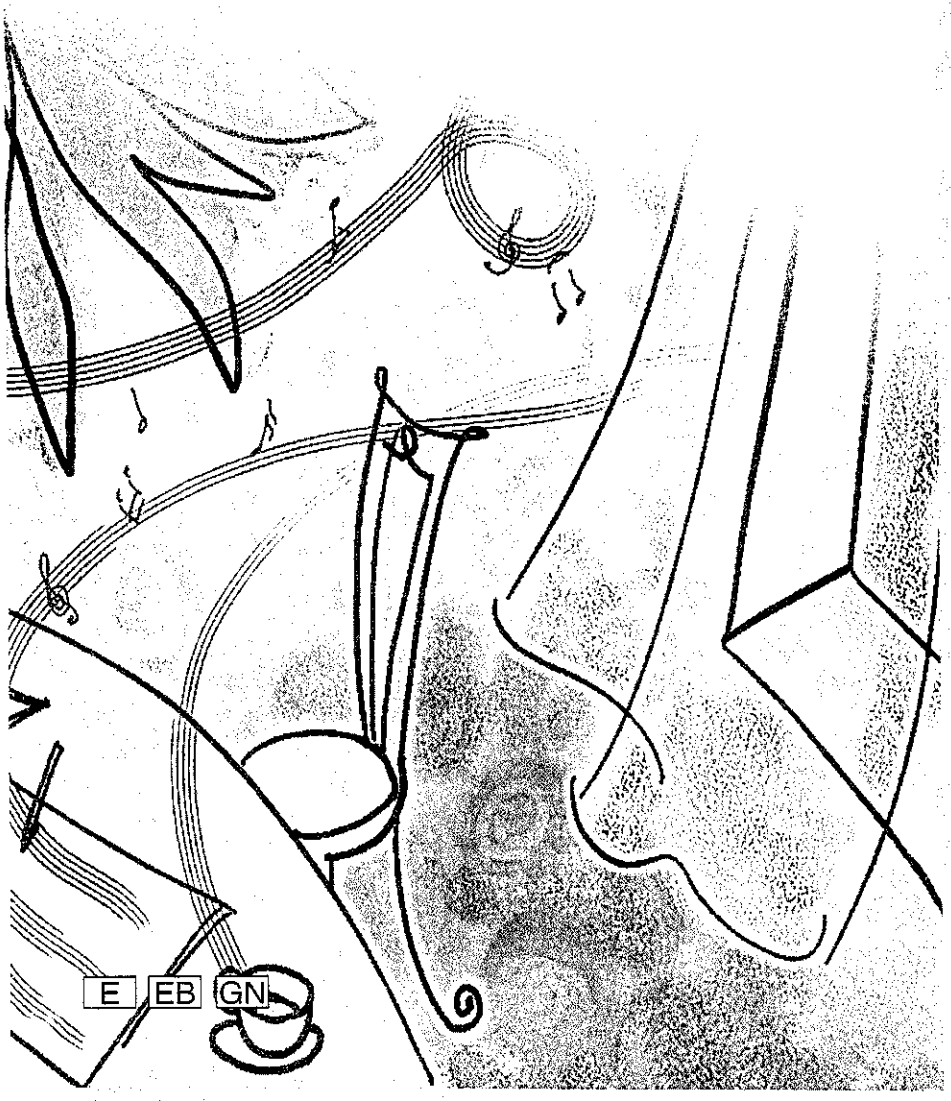
Panasonic®

Operating Instructions

Model No. **SC-PM11**



COMPACT disc DIGITAL AUDIO



E EB GN

Note:
"EB" on the packaging indicates the United Kingdom.

Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

RQT5713-B

Dear customer

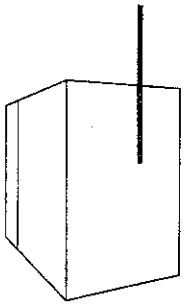
Thank you for purchasing this product.
For optimum performance and safety, please read these instructions carefully.

These operating instructions are applicable to the following system.

System	SC-PM11
Main unit	SA-PM11
Speakers	SB-PM11

CLASS 1
LASER PRODUCT

LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT



(Back of product)

DANGER	INVISIBLE LASER RADIATION WHEN OPEN AVOID DIRECT EXPOSURE TO BEAM.	(Inside of product)
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.	(Indersiden at apparatet)
VARO!	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTÖNTÄ LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.	(Tuotteen sisällä)
VARNING	OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.	(Apparatens insida)
ADVARSEL	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN	(Produktets innside)
VORSICHT	UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN	(Im Inneren des Gerätes)

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPLIANCE TO RAIN, SPLASHING, DRIPPING OR MOISTURE.

CAUTION!

DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING.

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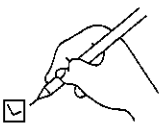
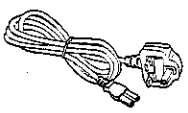
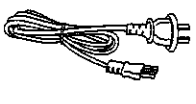
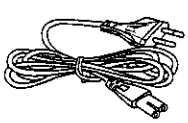
Supplied accessories



Please check and identify the supplied accessories.
Use numbers indicated in parentheses when asking for replacement parts.

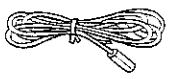
☐ AC mains lead ..... 1 pc.

For United Kingdom (VJA0733)	For Australia and N.Z (RJA0035-X)	For others (RJA0019-2K)

☐ FM indoor antenna ..... 1 pc.

For United Kingdom and Europe (RSA0007)	For Others (RSA0006-L)



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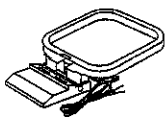
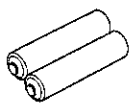
☐ AM loop antenna (RSA0033A) ..... 1 pc.



☐ Batteries ..... 2 pcs. (R6, AA, UM-3)



☐ Remote control transmitter ..... 1 pc. (N2QAGB000007)

☐ FM antenna adaptor ..... 1 pc.
Only for the U.K.
(SJP9009)

SUOMI

VAROITUS!
LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VAROITUS!
ÄLÄ ASENNA TAI LAITA TÄTÄ LAITETTA KABINETTITYYPPISEEN KIRJAKAAPPIIN TAI MUUHUN SULJETTUUN TILAAN, JOTTA TUULETUS ONNISTUISI. VARMISTA, ETTÄ VERHO TAI MIKÄÄN MUU MATERIAALI EI HUONONNA TUULETUSTA, JOTTA VÄLTETTÄISIIN YLIKUUMENEMISESTA JOHTUVA SÄHKÖISKU- TAI TULIPALOVAARA.

VAROITUS:
TULIPALO-, SÄHKÖISKUVAARAN TAI MUUN VAHINGON VÄHENTÄMISEKSI EI LAITETTA SAA ALTISTAA SATEELLE, ROISKEELLE, VESIPISAROILLE TAI KOSTEUDELLE.

NORSK

ADVARSEL!
DETTE PRODUKTET ANVENDER EN LASER.
BETJENING AV KONTROLLER, JUSTERINGER ELLER ANDRE INNGREP ENN DE SOM ER BESKREVENT I DENNE BRUKSANVISNING, KAN FØRE TIL FARLIG BESTRÅLING.
DEKSLER MÅ IKKE ÅPNES, OG FORSØK ALDRI Å REPARERE APPARATET PÅ EGENHÅND. ALT SERVICE OG REPARASJONSARBEID MÅ UTFØRES AV KVALIFISERT PERSONELL.

ADVARSEL!
APPARATET MÅ IKKE PLASSERES I EN BOKHYLLE, ET INNEBYGGET KABINETT ELLER ET ANNET LUKKET STED HVOR VENTILASJONSFORHOLDENE ER UTILSTREKKELIGE. SØRG FOR AT GARDINER ELLER LIGNENDE IKKE FORVERRER VENTILASJONSFORHOLDENE, SÅ RISIKO FOR ELEKTRISK SJOKK ELLER BRANN FORÅRSAKET AV OVERHETING UNNGÅS.

ADVARSEL:
FOR Å REDUSERE FAREN FOR BRANN, STRØMSJOKK ELLER SKADER PÅ PRODUKTET, MÅ DETTE APPARATET IKKE UTSETTES FOR REGN, VANNSPRUT, VANNDRÅPER ELLER FUKTIGHET.

Caution for AC Mains Lead

(For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⓐ or the BSI mark ⓚ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.
If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral, Brown: Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

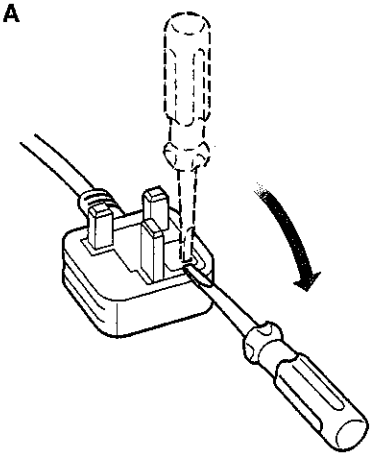
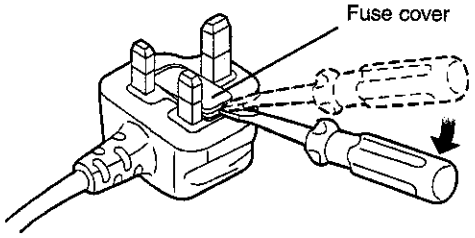


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

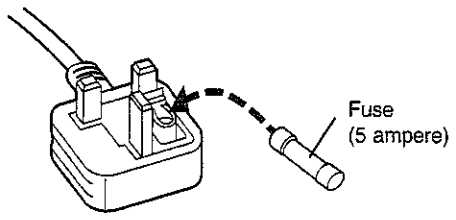
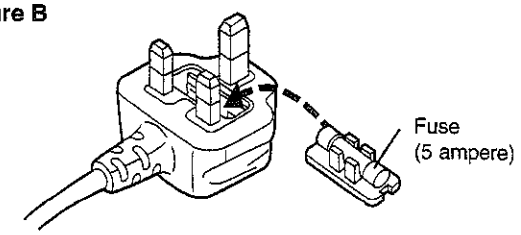


Figure B



Safety precautions

Placement

Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration. These conditions can damage the cabinet and other components, thereby shortening the unit's service life.

Place it at least 15 cm away from wall surfaces to avoid distortion and unwanted acoustical effects.

Do not place heavy items on the unit.

Voltage

Do not use high voltage power sources. This can overload the unit and cause a fire.

Do not use a DC power source. Check the source carefully when setting the unit up on a ship or other place where DC is used.

AC mains lead protection

Ensure the AC mains lead is connected correctly and not damaged. Poor connection and lead damage can cause fire or electric shock. Do not pull, bend, or place heavy items on the lead.

Grasp the plug firmly when unplugging the lead. Pulling the AC mains lead can cause electric shock.

Do not handle the plug with wet hands. This can cause electric shock.

Foreign matter

Do not let metal objects fall inside the unit. This can cause electric shock or malfunction.

Do not let liquids get into the unit. This can cause electric shock or malfunction. If this occurs, immediately disconnect the unit from the power supply and contact your dealer.

Do not spray insecticides onto or into the unit. They contain flammable gases which can ignite if sprayed into the unit.

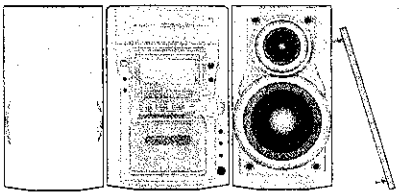
Service

Do not attempt to repair this unit by yourself. If sound is interrupted, indicators fail to light, smoke appears, or any other problem that is not covered in these instructions occurs, disconnect the AC mains lead and contact your dealer or an authorized service center. Electric shock or damage to the unit can occur if the unit is repaired, disassembled or reconstructed by unqualified persons.

Extend operating life by disconnecting the unit from the power source if it is not to be used for a long time.

Placement of speakers

Speakers are designed identically so that no left or right channel orientation is necessary.

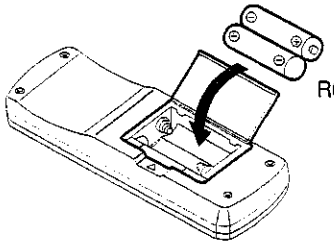


Notes

- Keep your speakers at least 10 mm away from the system for proper ventilation.
- These speakers do not have magnetic shielding. Do not place them near televisions, personal computers or other devices easily influenced by magnetism.
- To avoid damage to the speakers, do not touch the speakers cones if you have taken the nets off.

Concerning the remote control

Battery installation



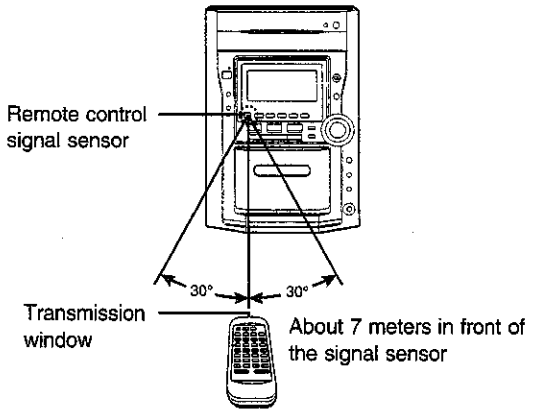
Insert the batteries observing the correct polarities (⊕, ⊖).

Use of batteries

- Align the poles (+ and –) properly when inserting the batteries.
- Do not mix old and new batteries or different types of batteries.
- Do not recharge ordinary dry cell batteries.
- Do not heat or disassemble the batteries. Do not allow them to contact flame or water.
- Remove the batteries if the unit is not to be used for a long time.
- Do not keep together with metallic objects such as necklaces.
- Do not use rechargeable type batteries.
- Do not use batteries if the covering has been peeled off.

Mishandling of batteries can cause electrolyte leakage which can damage items the fluid contacts and may cause a fire.
If electrolyte leaks from the batteries, consult your dealer.
Wash thoroughly with water if electrolyte comes in contact with any part of your body.

Correct method of use



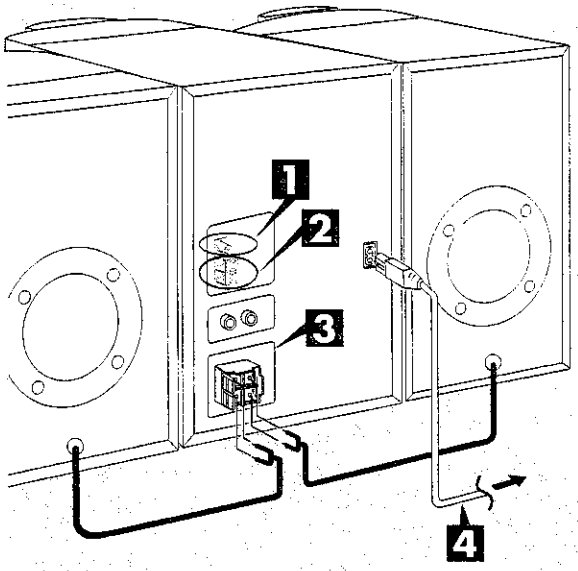
Operation notes

- Do not place obstacles between the remote control signal sensor and remote control unit.
- Do not expose the remote control signal sensor to direct sunlight or to the bright light of a fluorescent light.
- Take care to keep the remote control signal sensor and end of the remote control unit free from dust.
- If this system is installed in a rack with glass doors, the glass doors' thickness or color might make it necessary to use the remote control a shorter distance from the system.

To prevent damage

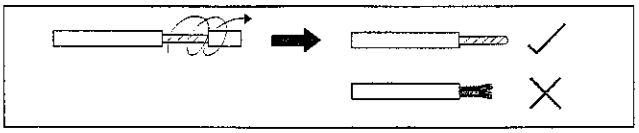
- Never place heavy items on top of the unit.
- Do not disassemble or reconstruct the unit.
- Do not spill water or other liquids into the unit.

Connections



Basic connections (for supplied accessories)

- Plug the AC mains lead into a household main socket only after all other connections have been made.
- To prepare the antenna wires and speaker cords, twist the vinyl cover tip and pull off.



1 Connect the FM indoor antenna.

Tape the antenna to a wall or column, in a position where radio signals are received with the least amount of interference.

Note

For best reception sound quality:
An FM outdoor antenna is recommended. (See page 7.)

2 Connect the AM loop antenna.

After attaching the antenna, turn on the system and tune in a broadcast station. Put the antenna where reception is best and interference is minimal.

3 Connect the speaker cables.

Connect each end of the speaker cables to the terminal lever of the same color so (+) and (–) are correct. Never allow the exposed wires to contact each other when connected.
Incorrect connection can damage the unit.

Caution

- **Use only the supplied speakers.**
  The combination of the main unit and speakers provide the best sound. Using other speakers can damage the unit and sound quality will be negatively affected.

Caution

- **Use the speakers only with the recommended system.**
  Failure to do so may lead to damage to the amplifier and/or the speakers, and may result in the risk of fire.
  Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.
- **Do not attach these speakers to walls or ceilings.**

4 Connect the AC mains lead.

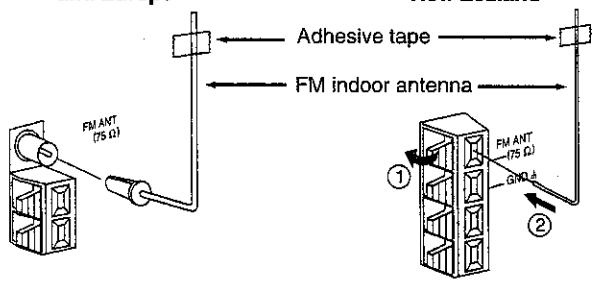
(FOR UNITED KINGDOM ONLY)
BE SURE TO READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 4 BEFORE CONNECTION.

Insertion of connector
Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing.
However there is no problem using the unit.

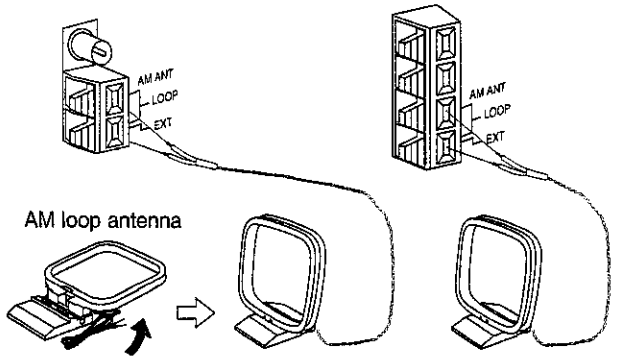
Note

The included AC mains lead is for use with this unit only. Do not use it with other equipment.

1 **For United Kingdom and Europe** / **For Australia and New Zealand**



2 **For United Kingdom and Europe** / **For Australia and New Zealand**



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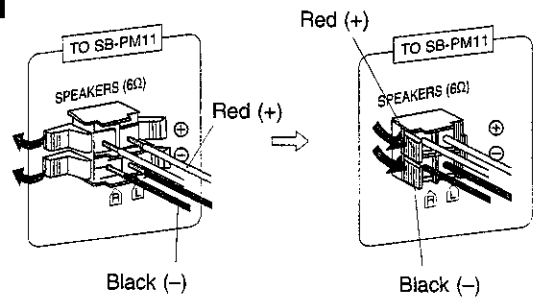

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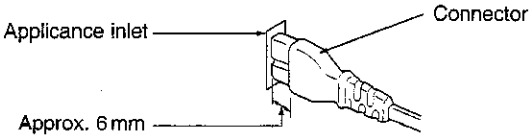


Optional antenna connections

You may need an outdoor antenna if you use this system in a mountainous region or inside a reinforced-concrete building, etc.

A FM outdoor antenna

Disconnect the FM indoor antenna if an FM outdoor antenna is installed.

① Remove a piece of the outer vinyl insulator.
② Twist the shield braid.
③ Expose the core wire.

Note

An outdoor antenna should be installed by a qualified technician only.

B AM outdoor antenna

Connect the outdoor antenna without removing the AM loop antenna. Run 5 to 12 m of vinyl-covered wire horizontally along a window or other convenient location.

Note

When the unit is not in use, disconnect the outdoor antenna to prevent possible damage that may be caused by lightning. Never use an outdoor antenna during an electrical storm.

External unit connection

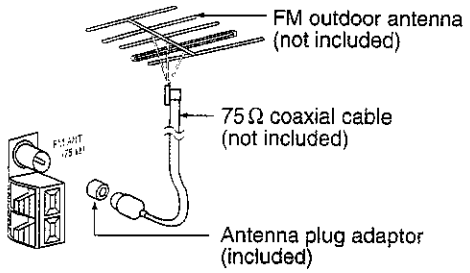
- Make sure that the power supply for all components has been turned off before making any connections.
- For details, refer to the operating instructions of the unit which are to be connected.
- All peripheral components and cables sold separately.

C Connecting analogue equipment

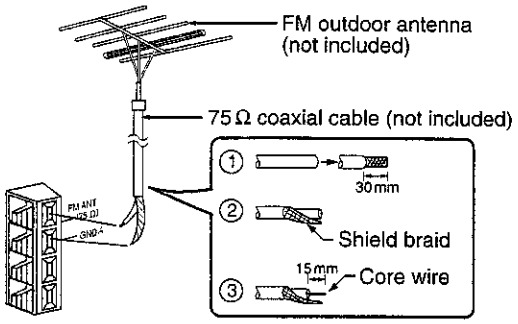
An analogue player with a built-in phono equalizer can be connected. When units other than those described are to be connected, please consult your audio dealer.

A

For United Kingdom and Europe

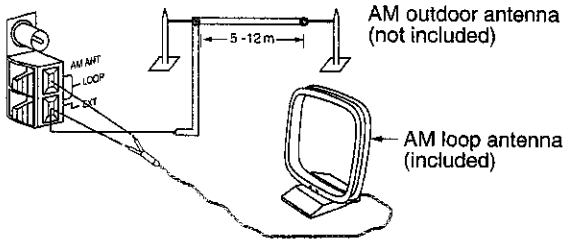


For Australia and New Zealand

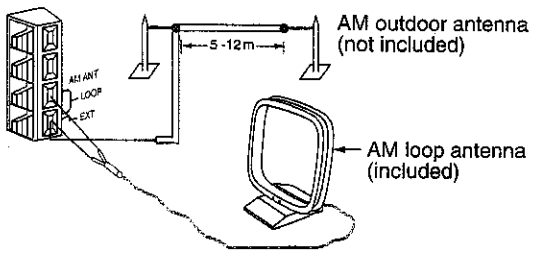


B

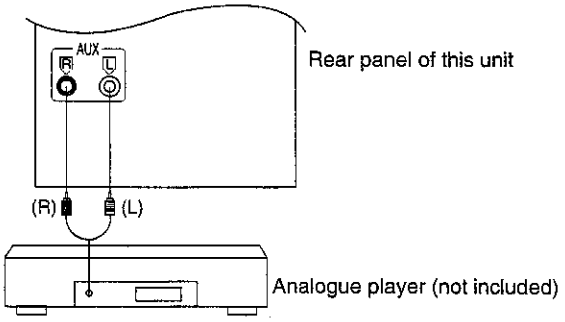
For United Kingdom and Europe



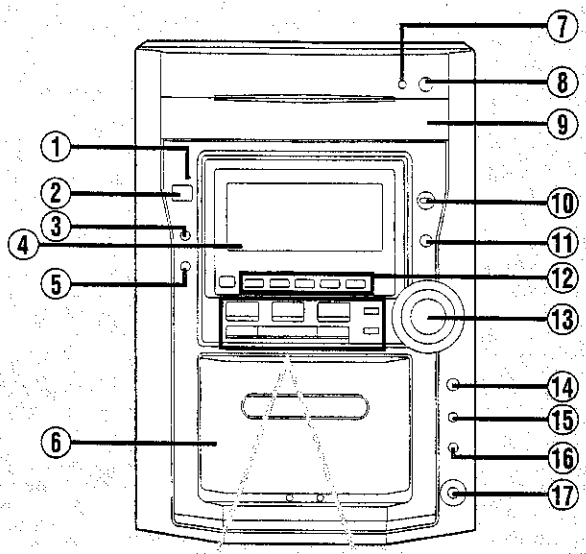
For Australia and New Zealand

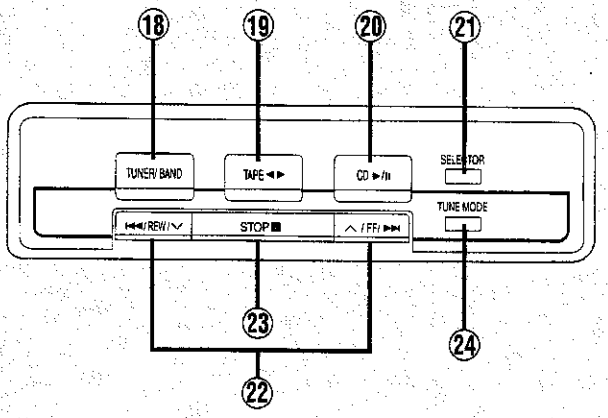


C



Front panel controls





A Main unit

No.	Name	Ref. page

① **AC supply indicator (AC IN)**
This indicator lights when the unit is connected to the AC mains supply.

② **For United Kingdom and Europe**
Standby/on switch (⏻/I)
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

For Others
Standby/on switch (⏻/I, POWER)

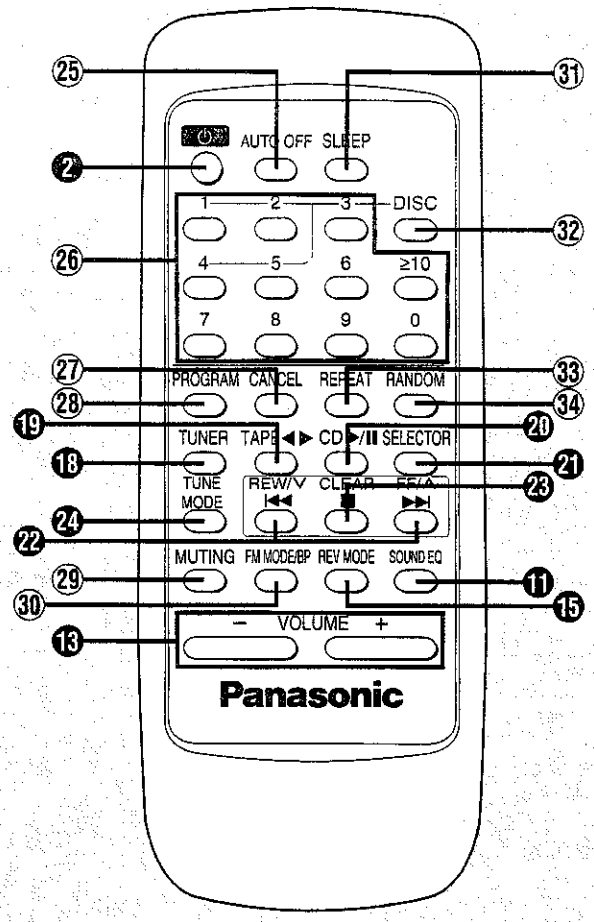
③ **Clock/timer and demonstration button (CLOCK/TIMER, –DEMO)** 10, 23, 24
④ **Display**
⑤ **Play timer/record timer button (⏲PLAY/⏲REC)** 23
⑥ **Cassette holder** 18
⑦ **CD manager button (CD MANAGER)** 15, 21
⑧ **CD tray open/close button (⏏ CD OPEN/CLOSE)** .. 12
⑨ **Disc tray**
⑩ **Super sound equalizer button (SUPER SOUND EQ)** 22
⑪ **Sound equalizer control (SOUND EQ)** 22
⑫ **Disc direct play button (CD 1 ~ CD 5)** 12
⑬ **Volume control (VOLUME DOWN, UP)** 12
⑭ **Deck open button (⏏ DECK OPEN)** 18
⑮ **Reverse mode select button (REV MODE)** 18
⑯ **Recording start/pause button (● REC/ II)** 20
⑰ **Headphone jack (PHONES)** 25

B Center console

⑱ **Tuner/band select button (TUNER/BAND)** 16
⑲ **Tape play/direction button (TAPE ◄►)** 18
⑳ **CD play/pause button (CD ►/ II)** 12
㉑ **CD, Tuner/band, Tape, Aux select button (SELECTOR)** 14, 25
㉒ **Skip/Search/Preset channel button (I◄◄/REW/∨, ∧/FF/►►I)** 12, 17, 19
㉓ **CD, Tape stop button (STOP ■)** 12, 18
㉔ **Tuning mode select button (TUNE MODE)** 16

Front panel controls

A Remote control



Buttons such as ❷ functions in exactly the same way as the buttons on the main unit.

No.	Name	Ref. page
㉕	Auto off button (AUTO OFF)	9
㉖	Numeric buttons (≥10, 1–9, 0)	13, 14
㉗	Cancel button (CANCEL)	14
㉘	Program button (PROGRAM)	14
㉙	Muting button (MUTING)	22
㉚	FM mode/BP button (FM MODE/BP)	16
㉛	Sleep button (SLEEP)	25
㉜	Disc button (DISC)	13
㉝	Repeat button (REPEAT)	13
㉞	Random button (RANDOM)	13

B Auto-off function

by remote control only

When CD or tape is selected as the source
To save power, the unit turns off if it is left unused for ten minutes.

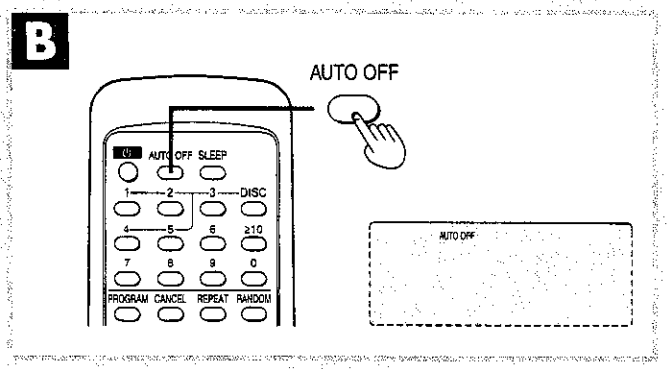
Note

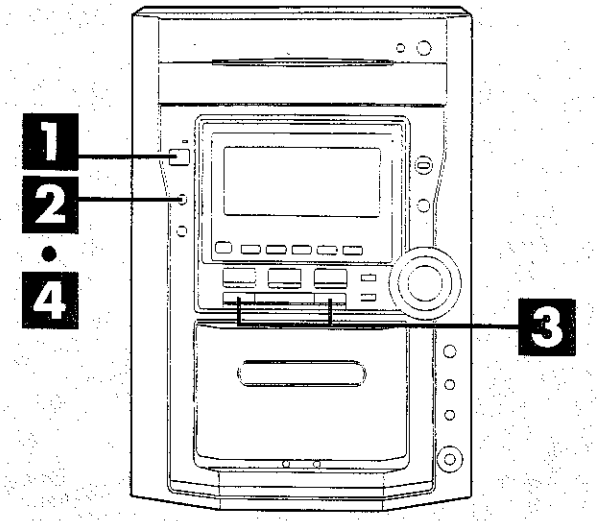
This function does not work if the source is tuner or AUX.

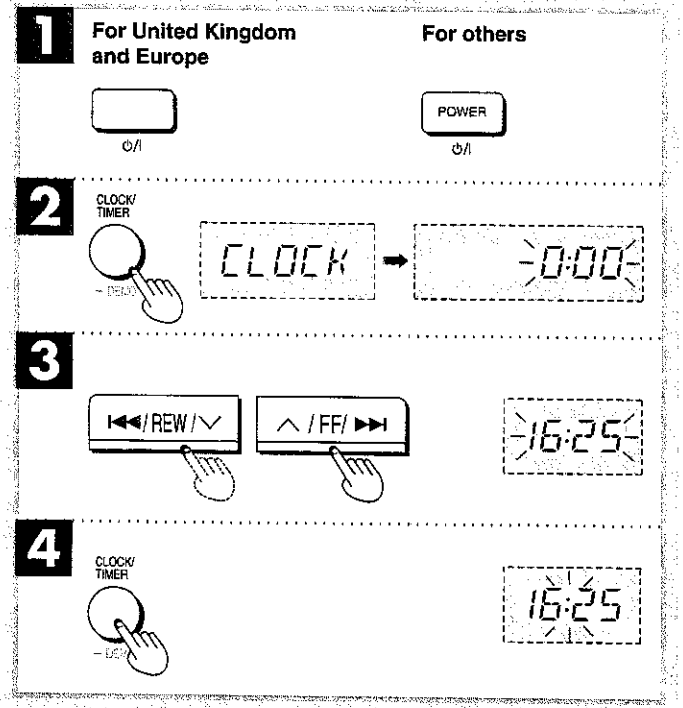
Press [AUTO OFF].
"AUTO OFF" is shown on the display.

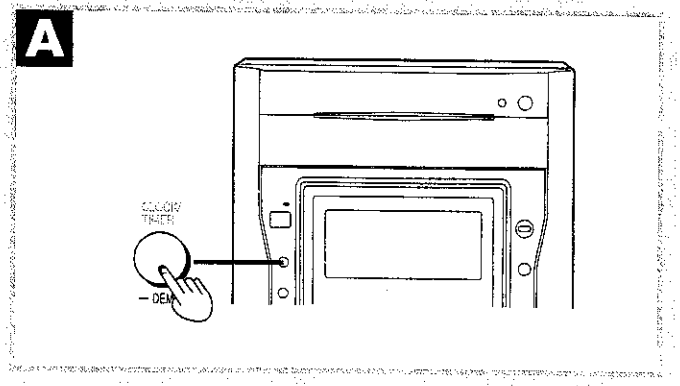
To cancel
Press [AUTO OFF] again to clear "AUTO OFF" from the display.

For your reference
The setting is maintained even if the unit is turned off. When the unit is turned on again, "AUTO OFF" is displayed and the unit functions as described above.
"AUTO OFF" disappears from the display if either tuner or AUX is selected as the source but continues to function normally.
"AUTO OFF" remains displayed if CD or tape is selected as the source.









Setting the time

This is a 24-hour display clock.
This example in the figure shows how to set the time for 16:25 (4:25 p.m.).

1 **Press [⏻/I] to switch on the unit.**

2 **Press [CLOCK/TIMER] to select "CLOCK".**
Every time you press the button:

CLOCK → ⏲PLAY → ⏲REC
↑ Previous display ←

3 **(within 7 seconds or so)**
Press [I◀◀/REW/∨] or [∧/FF/▶▶I] to show the present time.

4 **Press [CLOCK/TIMER] to finish setting the time.**
The display will return to whatever was displayed before you set the time.

To display the time when system is ON
Press [CLOCK/TIMER] to select "CLOCK".

The time will be displayed for about 5 seconds and then the display will return to whatever was previously displayed.

Note
The clock may lose or gain some time over a period. Readjust if necessary.

A *Turning the demo function off*

If the clock has not been set, a demonstration of the display is shown when the unit is switched to standby.
This function is set to on at the time of purchase.

Press and hold [–DEMO] until "NO DEMO" is displayed.
The display changes each time the button is held down.
NO DEMO (off) ↔ DEMO (on).

Concerning compact discs

With this system, you can only play compact discs having this mark.

A However, do not use irregular shaped CDs. CDs of the sort can damage the unit.

COMPACT disc DIGITAL AUDIO

B ~ D Handling precautions

- If you are taking the disc from a cold to a warm environment, moisture may form on the disc. Wipe this off with a soft, dry, lint-free cloth before using the disc.
- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not attach labels or stickers to CDs. (Do not use CDs with exposed adhesive from tape or left over peeled off stickers.)
- Do not use scratch-proof protectors or covers other than those specified for use with this system.
- Do not use CDs printed with label printers available on the market.

Storage precautions

Be sure to store discs in their cases to protect them from dust, scratches, and warping.

Do not place or store discs in the following places

- Locations exposed to direct sunlight
- Humid or dusty locations
- Locations directly exposed to a heat vent or heating appliance
- In the glove compartment or on the rear deck of an automobile

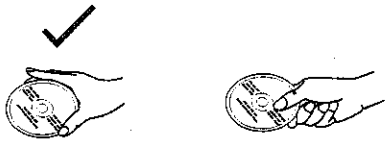
To prevent damage

Always observe the following points.

- E Load only 1 CD on the tray.
- F Load CDs as shown in figure
  The adapter is not needed with 8 cm CDs (singles).
- Set the system on a flat, level surface.
  Do not set it on top of magazines, inclined surfaces, etc.
- Do not move the system while tray is opening/closing, or when loaded.
  Always unload all CDs before moving the system.
- Do not put anything except CD in tray.
- Do not use cleaning CDs or CDs which are badly warped or cracked.
- Do not disconnect the power cord from the household AC outlet during disc changing operation.

A

B How to hold CDs



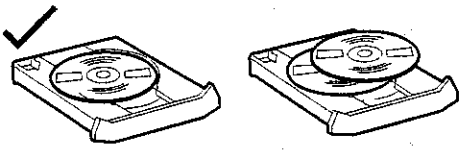
Do not touch the recorded surface.

C How to clean CDs

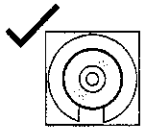
Wipe from inside outward.

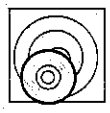
D

E

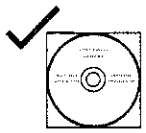


F

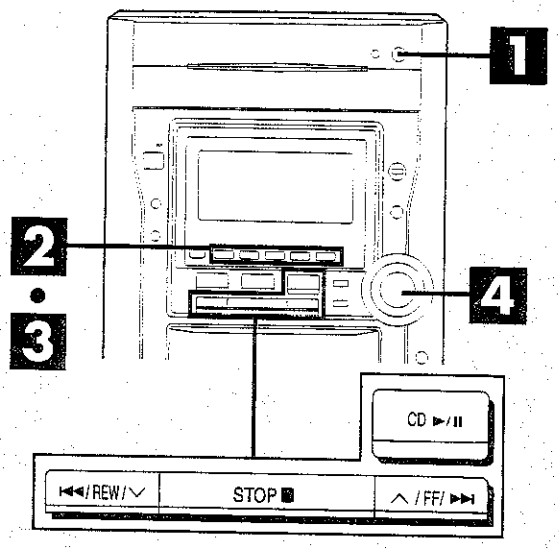


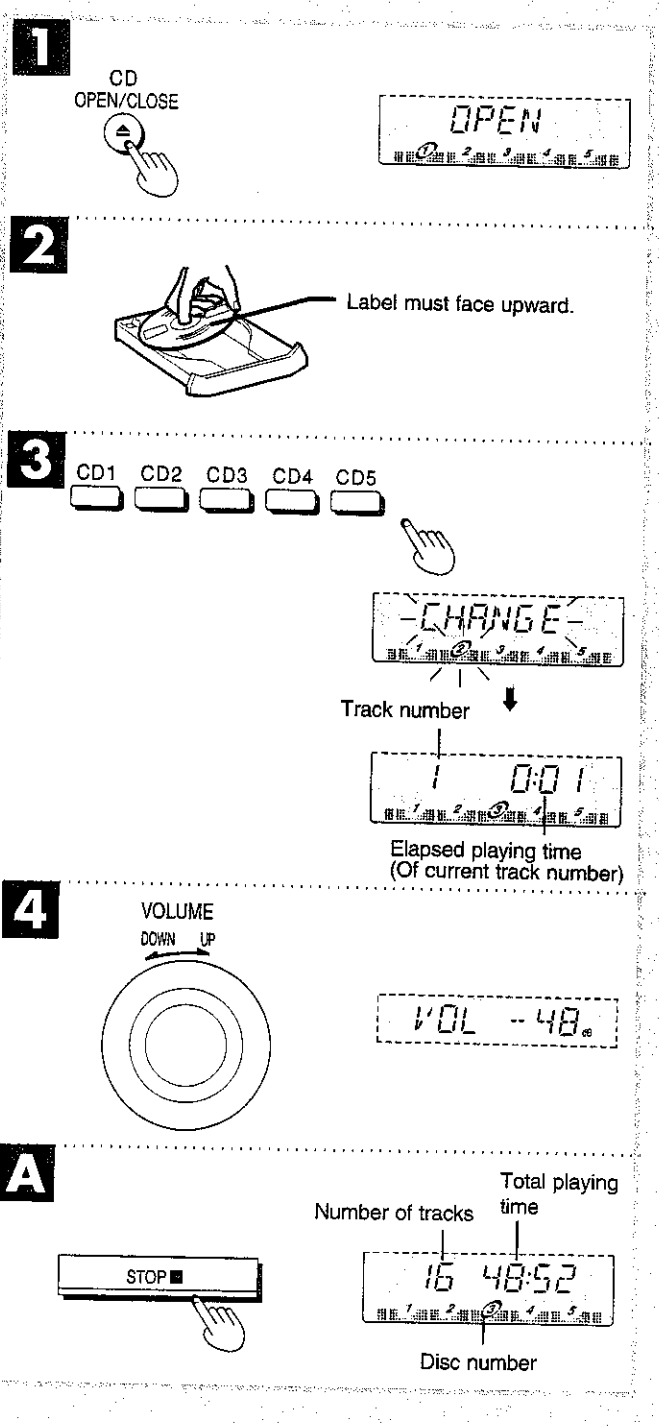


8 cm CD



12 cm CD





Listening to compact discs

This unit can play CD-DA format audio CD-R and CD-RW that have been finalized[+] upon completion of recording.
It may not be able to play some CD-R or CD-RW due to the condition of the recording.
[+] Finalizing is a process that enables CD-R/CD-RW players to play audio CD-R and CD-RW.

1 **Press [≜ CD OPEN/CLOSE].**
The unit will come on automatically and the tray opens.

2 **Set CD in the tray.**
To continue loading CDs in the other trays
Press another [(CD 1) ~ (CD 5)] to select the required tray and press [≜ CD OPEN/CLOSE] to open the tray.
The current tray closes and the selected tray automatically opens.
Press [≜ CD OPEN/CLOSE] to close the tray.

3 **Press [(CD 1) ~ (CD 5)] to play your desired disc.**
(If the desired CD is indicated on the display panel, the same operation can be accomplished by pressing [CD ▶/II].)
Play will start from the first track on the disc and will continue until the last track of the **final disc** is played (**see below**).

4 **Adjust the volume.**

A To stop the disc play
Press [STOP ■].

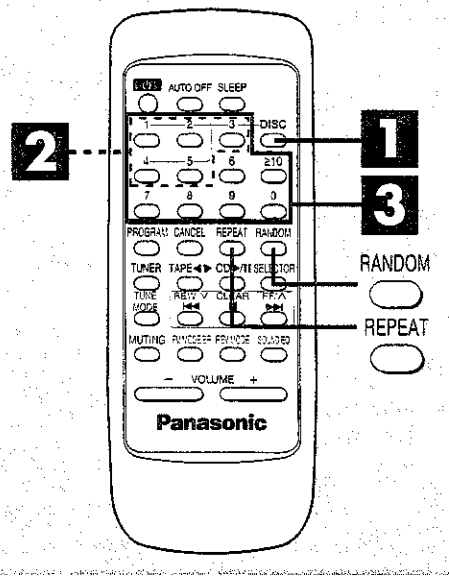
What is meant by "final disc"?
For example, if play starts from disc 4, disc 3 will be the "final disc".
Order of progression:
Disc 4→5→1→2→3

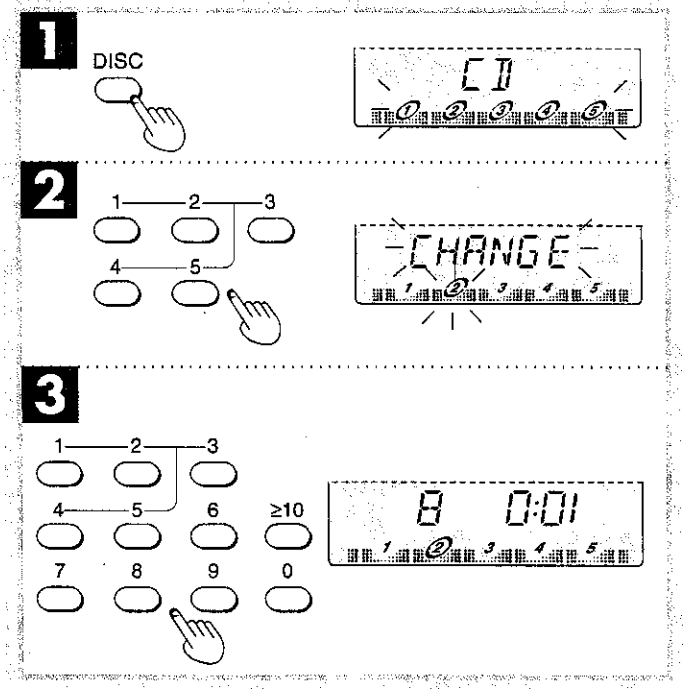
One touch play
If the unit is in standby mode and a CD is loaded, press [CD ▶/ II] or [(CD 1) ~ (CD 5)].
The unit will come on automatically and play will start.

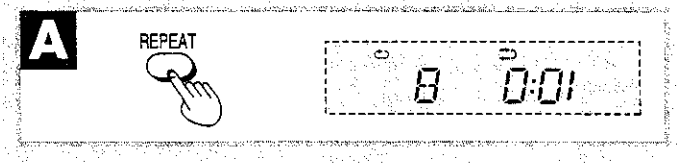
To pause	Press [CD ▶/ II] during playback. To resume playback, press [CD ▶/ II].
To search forward/ backward (Search)	Hold down [I◀◀/REW/∨] (backward) or [∧/FF/ ▶▶I] (forward) during playback or pause mode.
To skip forward/ backward	Press [I◀◀/REW/∨] (backward) or [∧/FF/ ▶▶I] (forward) during playback or pause mode.

Notes

- During random play (➡ page 13), you cannot skip to tracks which have already been played.
- During program play (➡ page 14) or random play, you can search forward or backward only within the current track.
- During program play, skipping is always in the programmed order, whether forward or backward.
- Always stop the changer before loading or changing CDs. You cannot change CDs while a disc is playing.







Listening to compact discs

Direct access play

by remote control only

1 **Press [DISC].**

2 **(within 10 seconds or so)**
Press [1] – [5] to select the disc you want.

3 **Press the numeric button to select the desired track number.**
The CD will be played from the selected track to the last track of the final disc (➡ page 12).

To select a two-digit track
Press [≥10] and then the two numbers you want within 10 seconds or so.
For example
Track no. 20: [≥10] → [2] → [0]
Track no. 35: [≥10] → [3] → [5]

Repeat play

by remote control only

A **Press [REPEAT] before or during play.**
All tracks on the loaded CDs are repeated.

To cancel repeat play
Press [REPEAT] once again.

To repeat your favorite tracks
1. Program the tracks you want (perform steps **1** ~ **6** on page 14).
2. Press [REPEAT] and make sure "↻" is displayed.
3. Press [CD ▶/II]. Playback will start.

To repeat just one track
Set the 1-TRACK mode (➡ page 15), press [REPEAT] before or during playback, and make sure "↻" is displayed.

Random play

by remote control only

B **Press [RANDOM].**

Every time you press the button:
1-DISC → ALL
↑ Previous display ←

To random play just one disc
Select the CD you want to random play with [(CD 1) ~ (CD 5)] and press [RANDOM] to select "1-DISC".

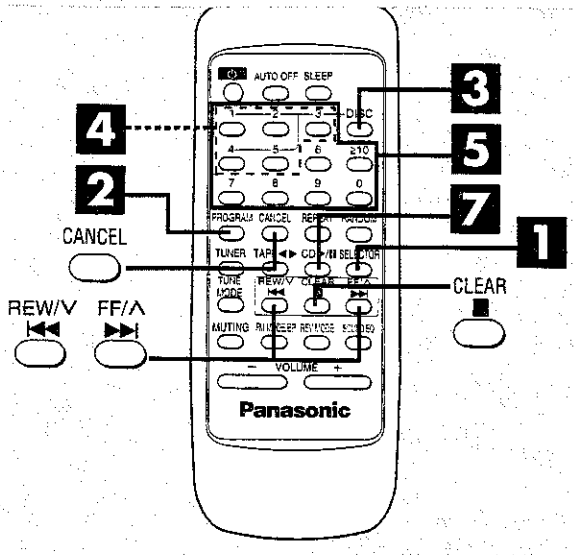
To random play all the loaded CDs
Press [RANDOM] to select "ALL".

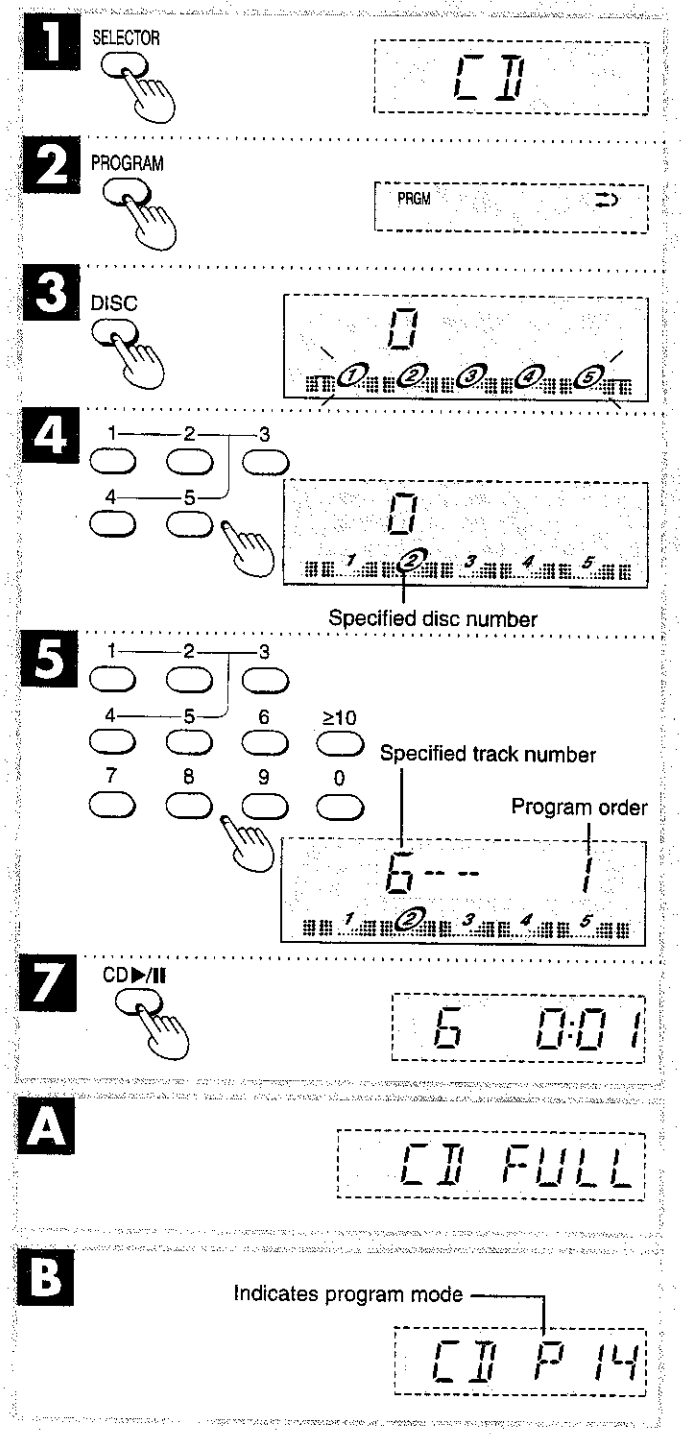
All tracks on the CD(s) will be played in random order. Playback will stop automatically when all tracks have been played.

To cancel random play
Press [RANDOM] to clear "RANDOM" display.

Note

You can use random play with your program. Only the programmed tracks will be played, but in random order.





Listening to compact discs

Program play

by remote control only

You can program up to 24 tracks.

1 **Press [SELECTOR] to select "CD".**
Every time you press the button:
CD → TAPE → TUNER → AUX

2 **Press [PROGRAM].**

3 **Press [DISC].**

4 **(within 10 seconds or so)**
Press [1] – [5] to select the disc you want.

5 **Press the numeric button to select the desired track.**

6 **Repeat steps 3 through 5 until you have programmed all the tracks you want.**

7 **Press [CD ▶/II].**
Play will start in the programmed sequence.

To cancel program play mode
Press [PROGRAM] in the stop mode.
Programmed contents will be saved in memory.
Pressing [■ CLEAR] will cancel program play, but it will also erase the entire program.

To select a two-digit track
Press [≥10] and then the two numbers you want.

A When "CD FULL" appears
The number of programmed tracks is limited to 24. No further tracks can be programmed.

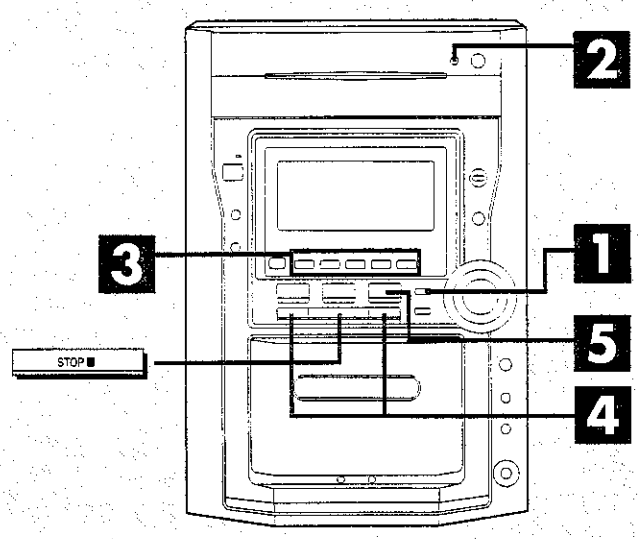
B You can do the following during program mode
- Check program contents.
  Press [I◀◀] or [▶▶I].
  Every time you press one of the buttons, the track and program No. are shown on the display.
- Add to the program.
  Repeat steps 3 through 5.
- Cancel entries.

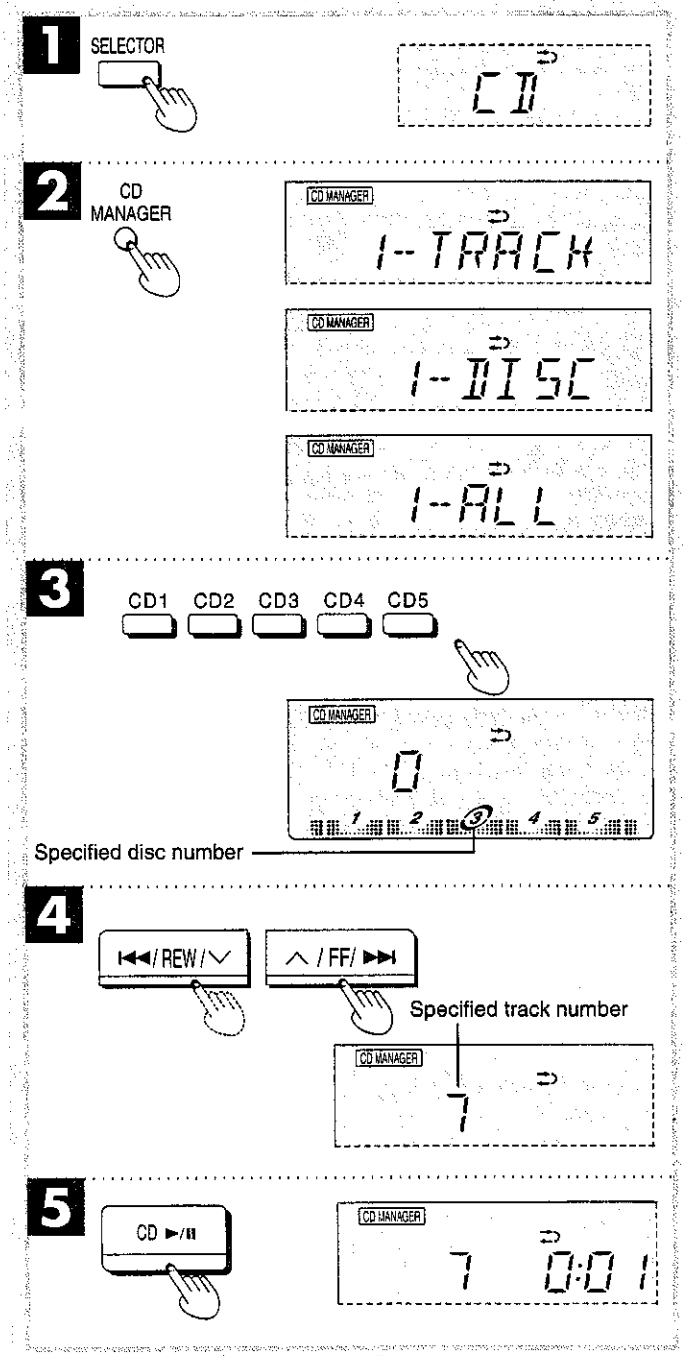
From the last programmed track	Press [CANCEL].
A specified track only	Select the track with [I◀◀] or [▶▶I], and press [CANCEL] within 3 seconds.
All tracks	Press [■ CLEAR].

Memory retention
Your program is retained in memory for about 2 weeks while the system is unplugged.

To replay your program
If you turned OFF your program with [PROGRAM], you can play it again as explained below.
1. Press [PROGRAM].
2. Press [CD ▶/II].

If you program a track not on your CDs
The track is initially programmed, but during program play, the player will skip that track and will continue playing from the next programmed item.





To listen to special CDs and tracks (CD Manager function)

This function makes it easier for you to select special CDs and tracks from amongst those loaded in the player.

You can use this function to make recordings as well.

There are 3 CD/track selection modes.

- For playing back 1 track only from all loaded CDs
  1-Track mode (1-TRACK)
- For playing back 1 CD only from all loaded CDs
  1-Disc mode (1-DISC)
- For playing back 1 track on all loaded CDs
  1-Track All-Disc mode (1-ALL)

1 Press [SELECTOR] to select "CD".

2 Press [CD MANAGER] to select the desired mode.
Every time you press the button:

1-TRACK → 1-DISC → 1-ALL
↑ NORMAL (OFF) ←

1-TRACK: Only one particular track is played.
1-DISC: The tracks on only one particular disc are played.
1-ALL: The same track numbers on each of the CDs are played in succession.
(NORMAL: The original display is restored in about 3 seconds.)

3 Press [(CD 1) ~ (CD 5)] to select the disc you want.
Note
This step is not required if 1-ALL was selected in step 2.

4 Press [I◄◄/REW/∨] or [∧/FF/►►I] to select the desired track.
Note
This step is not required if 1-DISC was selected in step 2.

5 Press [CD ►/II].
The selected track will start.

To stop play
Press [STOP ■].

When playback ends
"NORMAL" will appear on the display for about 3 seconds, then the CD MANAGER function will turn OFF automatically.

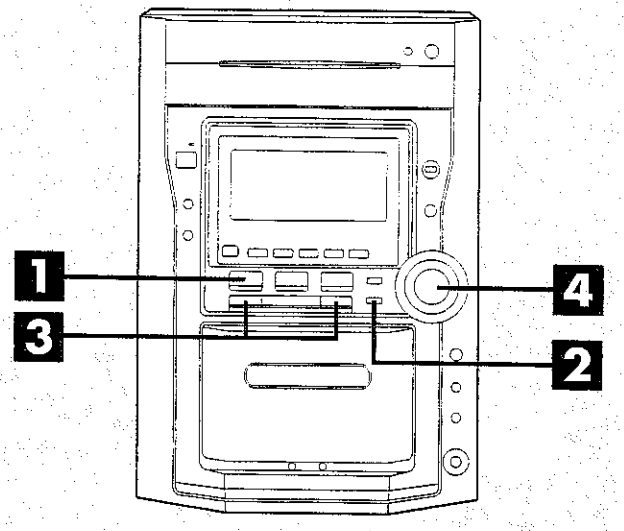
During play in the 1-ALL mode:

- It is not possible to skip back to a CD whose track has already been played.
- If a CD does not have the designated track number, it is skipped and play continues.

Notes

- You can use the CD Manager function together with repeat play.
- CD Manager function will be cancelled when you press the [RANDOM] button.

Listening to radio broadcasts

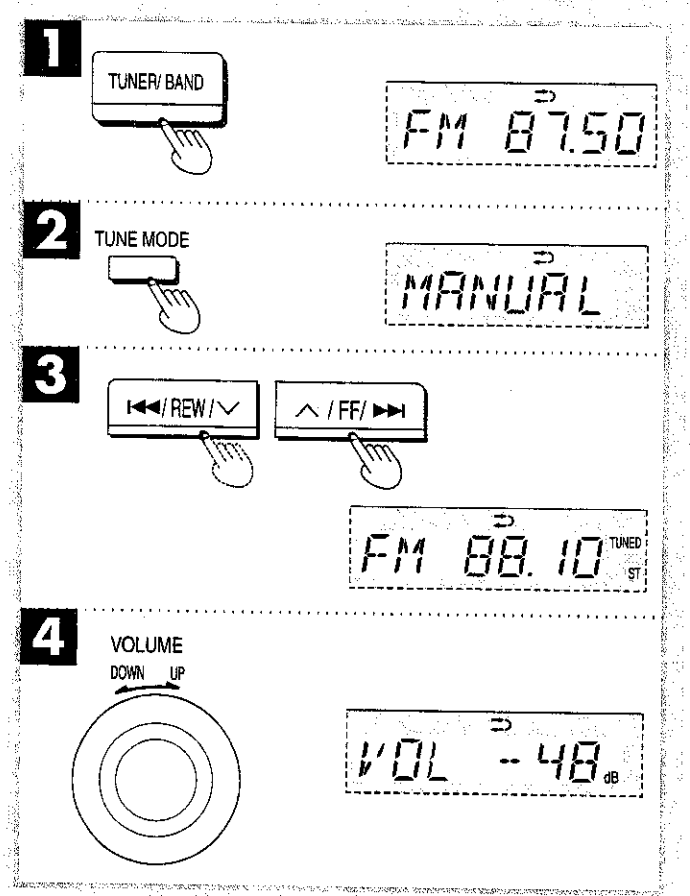


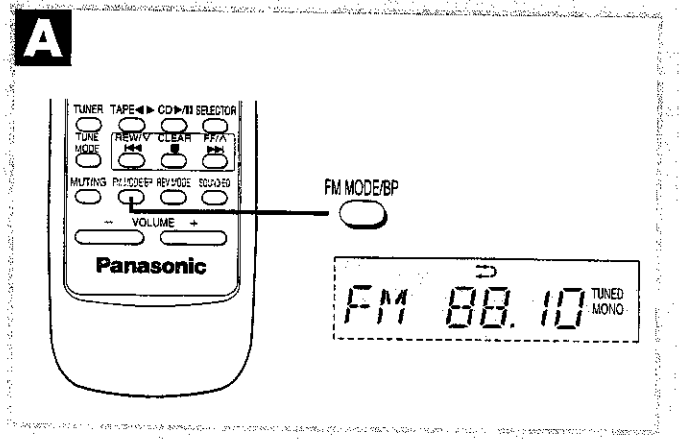
1 **Press [TUNER/BAND] to select "FM" or "AM".**
The unit comes on automatically.
Every time you press the button:
FM⇄AM

2 **Press [TUNE MODE] to select "MANUAL".**
Every time you press the button:
MANUAL⇄PRESET.

3 **Press [I◀◀/REW/∨] or [∧/FF/▶▶I] to select the frequency of the required station.**
"TUNED" is displayed when a radio station is tuned.
"ST" is displayed when a stereo FM broadcast is being received.

4 **Adjust the volume.**





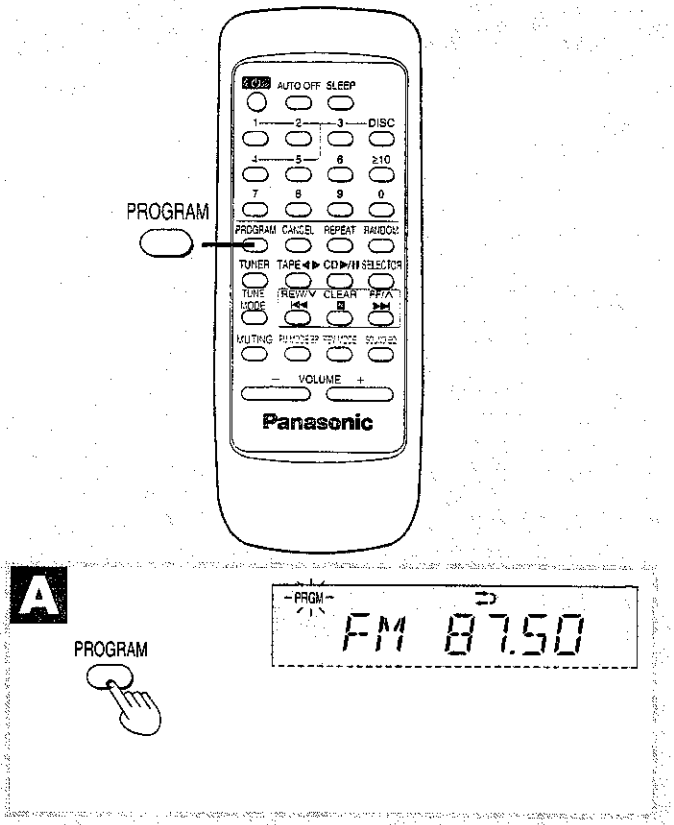
Auto tuning
Press and hold [I◀◀/REW/∨] or [∧/FF/▶▶I] for a moment until the frequency starts changing rapidly. The unit begins auto tuning, stopping when it finds a station.
- Auto tuning may not function when there is excessive interference.
- To cancel auto tuning, press [I◀◀/REW/∨] or [∧/FF/▶▶I] once again.

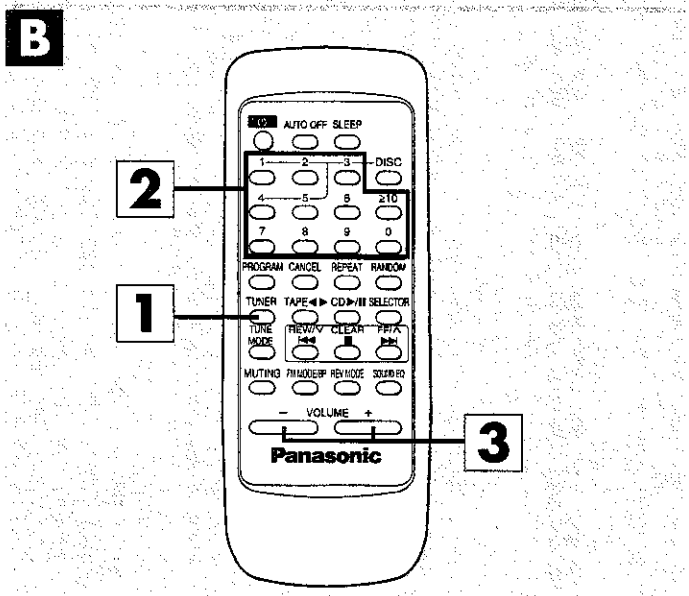
A If noise is excessive in FM

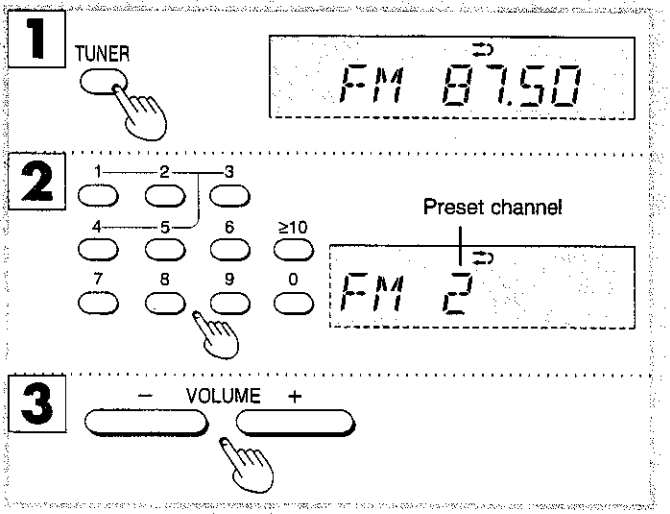
by remote control only

Press [FM MODE/BP] to display "MONO".
This mode improves sound quality if reception is weak, but broadcasts will be heard in monaural.
Press [FM MODE/BP] again to cancel the mode.
"MONO" goes out. MONO is also canceled if the frequency is changed. Turn off "MONO" for normal listening. Stereo and monaural broadcasts are automatically played as they are received.

Note
Sound is momentarily interrupted if you load/unload tapes while listening to an AM broadcast.







Presetting radio broadcasts

by remote control only

There are two methods of presetting stations.

Automatic presetting : All the stations the tuner can receive are preset.

Manual presetting : You can select the stations to preset and the order they are preset in.

Up to 12 stations each can be set in the FM and AM bands.

A Automatic presetting

Do the following once each for FM and AM.

Preparation:

Tune to the frequency where presetting is to begin (➡ page 16).

Press and hold [PROGRAM].

Release the button when frequency begins to change.

The tuner presets all the stations it can receive into the channels in ascending order. When finished, the last station memorized is tuned in.

Manual presetting

Preset the stations one at a time.

① Press [TUNER] to select "FM" or "AM".

② Press [PROGRAM] then press [|◀◀, REW/∨] or [▶▶|, FF/∧] to tune to the required station.

③ Press [PROGRAM] then press [|◀◀, REW/∨] or [▶▶|, FF/∧] to select a channel.

④ Press [PROGRAM].

The station occupying a channel is erased if another station is preset in that channel.

B Selecting channels

1 Press [TUNER] to select "FM" or "AM".

The unit comes on automatically.

Every time you press the button:

FM⇄AM

2 Press the numbered buttons to select the channel.

• To enter channels 10 or over.

Press [≥10], then the two digits.

3 Adjust the volume.

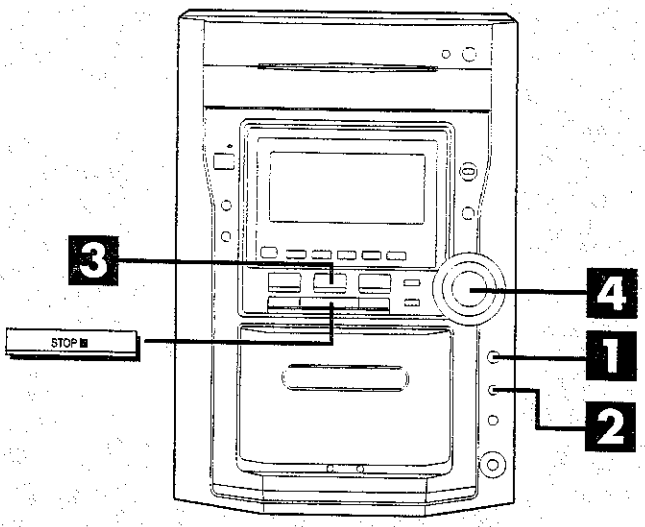
On the main unit

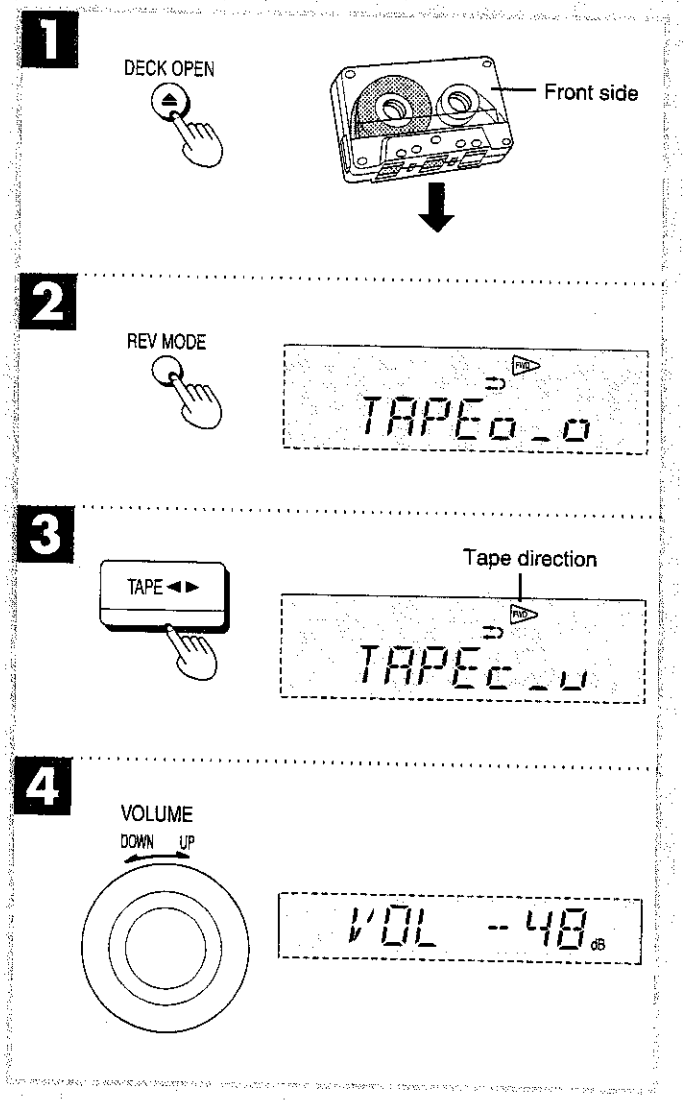
① Press [TUNER/BAND] to select "FM" or "AM".

② Press [TUNE MODE] to select "PRESET".

③ Press [|◀◀/REW/∨] or [∧/FF/▶▶|] to select the preset channel.

Listening to tapes





1 Press [⏏ DECK OPEN].
The unit will come on automatically.
Insert the tape with the exposed tape facing down.
Close the holder by hand.
Tape direction is automatically set to "▷".

2 Press [REV MODE] to select the reverse mode.
Every time you press the button:

⇄ → ⇉ → ⟲

⇄ : One side is played.
⇉ : Both sides are played.
⟲ : Both sides are played repeatedly until [STOP ■] is pressed.

3 Press [TAPE ◄ ►] to start playback.
Every time you press the button; ◁ ↔ ▷
▷ : The forward side (front side) will play.
◁ : The reverse side will play.

4 Adjust the volume.

To stop tape playback
Press [STOP ■].

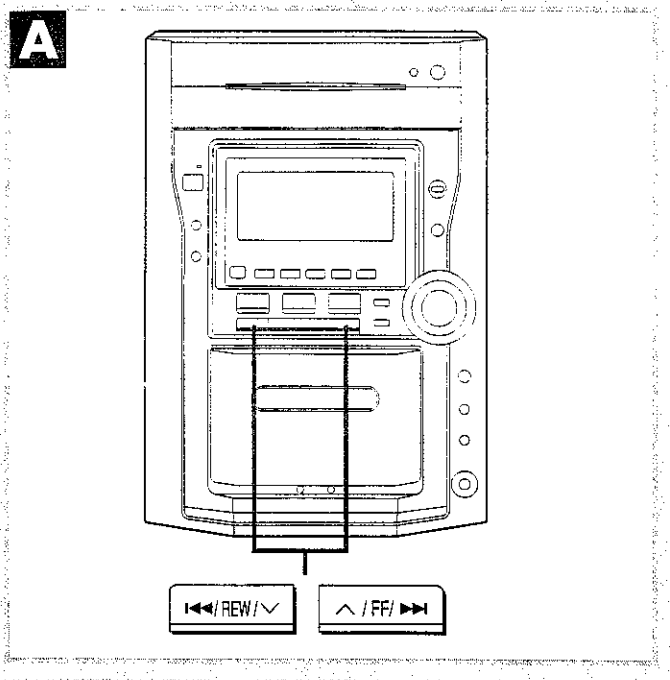
One-touch play
When the system is OFF and a tape is already inserted, play starts automatically when you press [TAPE ◄ ►].

Cassette tape selection and care

The unit can correctly play the following types. It identifies the type automatically.

Normal position/TYPE I	✔
High position/TYPE II	✔
Metal position/TYPE IV	✔

- Tapes exceeding 100 minutes are thin and can break or get caught in the mechanism.
- Tape slack can get caught up in the mechanism and should be wound up before the tape is played.
- Endless tapes can get caught up in the deck's moving parts if used incorrectly. Use tapes appropriate to this unit's auto-reverse mechanism.



Listening to tapes

A To fast-forward or rewind the tape

Press [I◀◀/REW/V] or [Λ/FF/▶▶I] in the stop mode.

Tape direction	To rewind	To fast-forward
" ▷ "	[I◀◀/REW/V]	[Λ/FF/▶▶I]
" ◁ "	[I◀◀/REW/V]	[Λ/FF/▶▶I]

A To find the beginning of a program (TPS: Tape Program Sensor)

TPS finds the beginning of a track and resumes play from there. Each press increases the number of tracks skipped, up to a maximum of 9.

Press [I◀◀/REW/V] or [Λ/FF/▶▶I] during play.

Notes

The TPS function searches for silent parts of about 4 seconds in length which are normally found between tunes. As a result, it may not function properly in the following cases:

- With short silent parts
- When noise occurs between tunes
- With silent parts found within tunes

Before recording

Selection of tapes for recording

The unit automatically identifies the type of tape.

Normal position/TYPE I	✔
High position/TYPE II	✔
Metal position/TYPE IV	×

Metal position tapes can be used, but the unit will not be able to record or erase them correctly.

B Erasure prevention

The illustration shows how to remove the tabs to prevent recording. To record on the tape again, cover as shown, being careful not to cover the high position discrimination hole.

How volume, sound quality/field affect recording

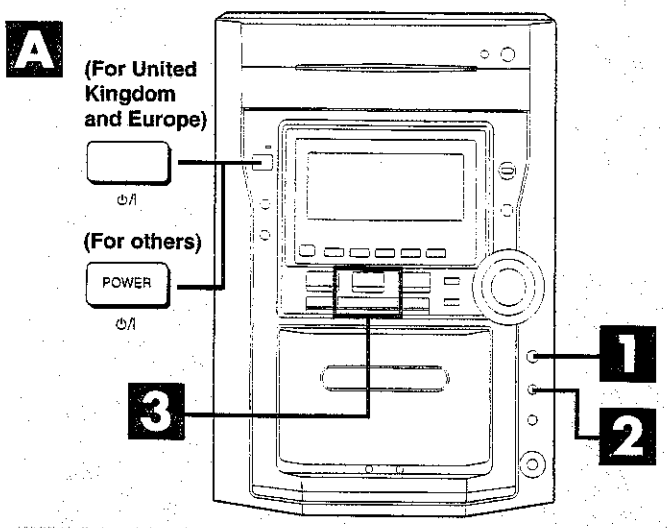
- Recording level is set automatically.
- All sound effects are automatically set to flat.

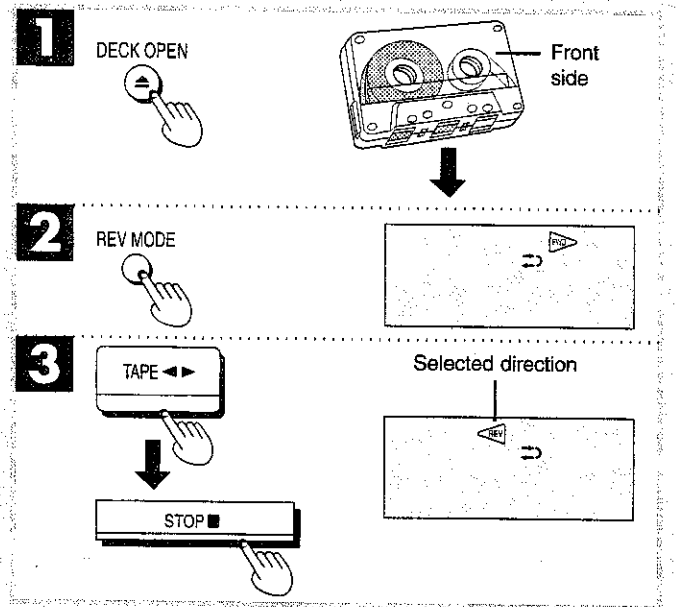
C Erasing recordings

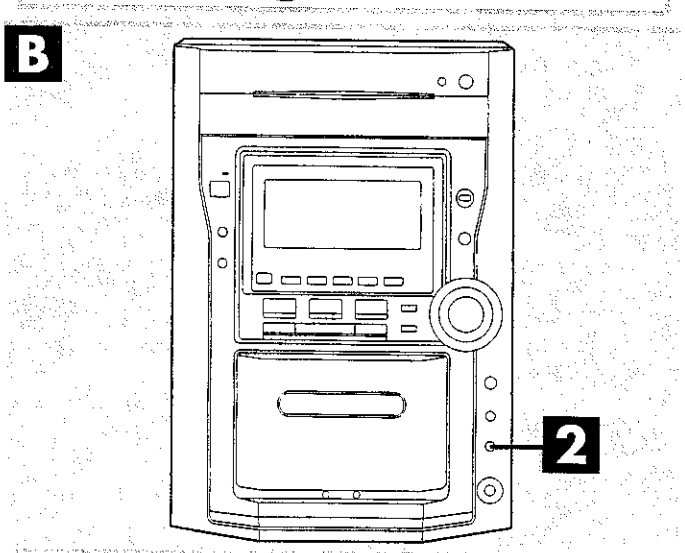
① Press [SELECTOR] to select "TAPE".
Every time you press the button:
CD → TAPE → TUNER → AUX
↑ ↓

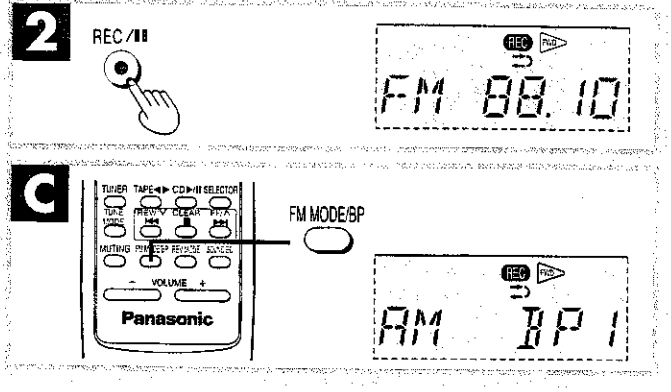
② Insert the recorded tape into deck.
③ Press [REV MODE] to select the reverse mode.
④ Press [● REC/II].

Your attention is drawn to the fact that recording pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.









Before recording

A Preparatory steps

Do these steps before each recording.
Wind up the leader tape so recording can begin immediately.
Preparation: Press [⏻/I] to turn the unit on.

1 Press [⏏ DECK OPEN] and insert the cassette to be recorded on.
Insert with the tape facing down.

2 Press [REV MODE] to select the reverse mode.
Every time you press the button:

⇄ → ⇉ → ⟲

⇄ : One side only records.
⇉ , ⟲ : Both sides record (forward → reverse).
"⟲" automatically changes to "⇉" when [● REC/II] is pressed.

3 Set the tape direction.
▷ : To record on the forward side.
◁ : To record on the reverse side.

To change the direction
Press [TAPE ◄ ►] twice and then [STOP ■].

B Recording the radio

Preparation: Do the preparatory steps above.

1 Tune to the required station.
(→ page 16 or 17).

2 Press [● REC/II] to start recording.

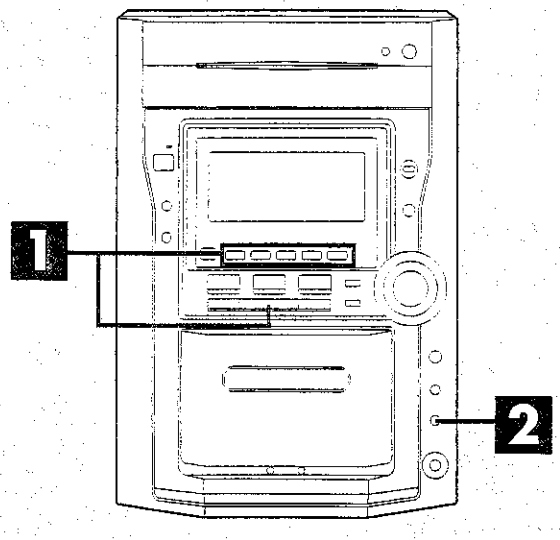
To stop recording
Press [STOP ■].

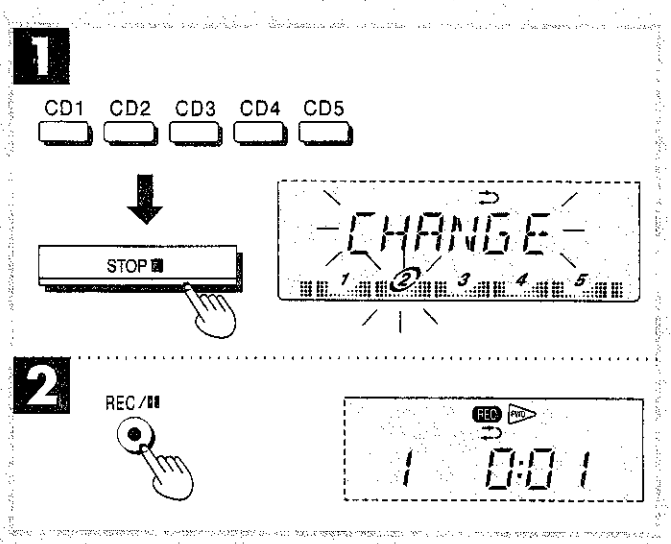
To pause recording
Press [● REC/II].
Press [● REC/II] again to resume recording.

C To reduce noise while recording an AM broadcast (Beat proof function)

by remote control only

Press [FM MODE/BP] while recording.
Every time you press the button:
BP1 ↔ BP2
Select the position where there is less noise.





Recording discs

Preparation:
- Do the preparatory steps (➡ page 20).
- Press [SELECTOR] to select disc as the source and insert the disc(s) you want to record (➡ page 12).

Normal recording

1 Press [(CD 1) ~ (CD 5)] to select the disc to be recorded, then [STOP ■] to stop play.

2 Press [● REC/II] to start recording.
The CD starts.

To stop recording
Press [STOP ■].
The CD stops, and the tape stops after making a 4 second silent interval.

To record programmed tracks
① Program the tracks (➡ page 14).
② Press [● REC/II] to start recording.
Play starts.
To stop recording, press [STOP ■].
Disc play stops automatically.

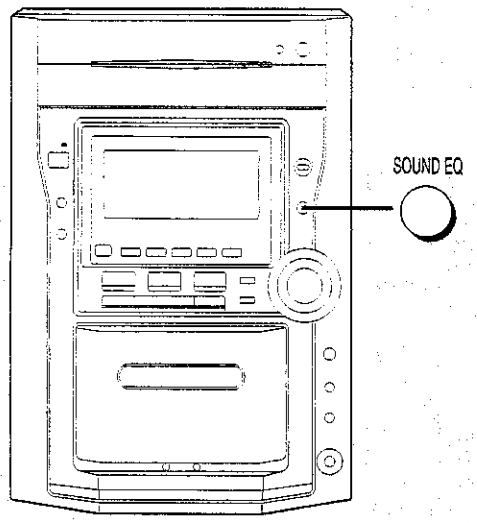
Recording with CD Manager (➡ page 15)

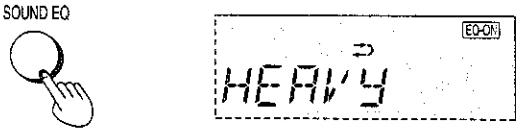
Record discs after selecting the required CD MANAGER mode (1-TRACK, 1-DISC, ALL-DISC)
- If a track is cut off in the middle at the end of the front side while recording, the track will be recorded from the beginning on the reverse side.
- At the end of the reverse side, recording stops and the current track will be interrupted.
- Recording pauses while discs are changing and resumes when the disc is ready.

① Do steps 1 to 4 on page 15.
② Press [● REC/II] to start recording.
Play starts.

To stop recording
Press [STOP ■].
Disc play stops automatically.

A Using the built-in sound quality/ sound field settings





Press [SOUND EQ] to select the sound quality or sound field.
When it is pressed, the settings are selected in the following sequence.

① **HEAVY (sound quality)**
Select this when playing rock or other kinds of music that sound better with an added punch.

② **CLEAR (sound quality)**
Select this for jazz or other kinds of music for which clarity in the treble range is desired.

③ **SOFT (sound quality)**
Select this when listening to background music.

④ **DISCO (sound field)**
Select this to produce sound with the same kind of lengthy reverberations heard at a disco.

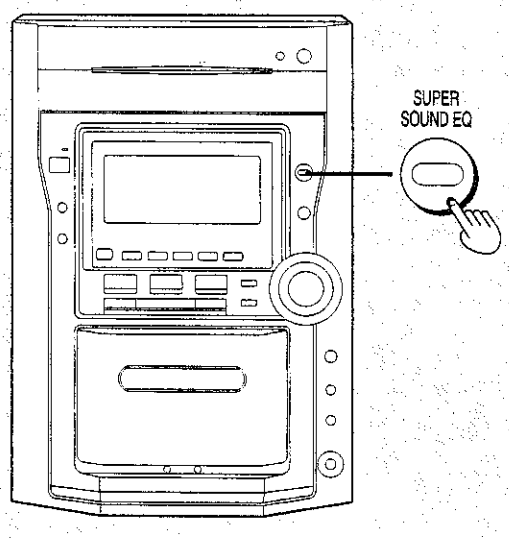
⑤ **LIVE (sound field)**
Select this to make vocals more alive.

⑥ **HALL (sound field)**
Select this to add an expansiveness to the sound to produce the atmosphere of a great concert hall.

The original display is restored on the display panel in about 5 seconds.

Note
All recordings are performed at the flat setting even if an alternative sound quality/sound field setting has been selected.

B Enhancing the sound quality

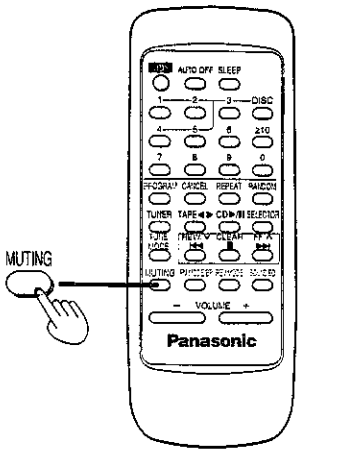


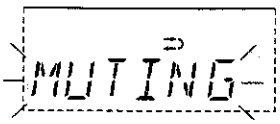
This feature enhances the bass and treble effect of the sound.

Press [SUPER SOUND EQ].
Press the button again to cancel.
The button light goes out.

Note
You cannot record Super Sound EQ effect, but you can use it for playback sound.

C To mute the volume





by remote control only
This feature is convenient when you have a telephone call, etc.

Press [MUTING].
Press the button again to cancel.
"MUTING" goes out.
Muting can also be canceled by lowering the volume all the way (--dB).

When the system is turned off, the muting operation will be automatically canceled.

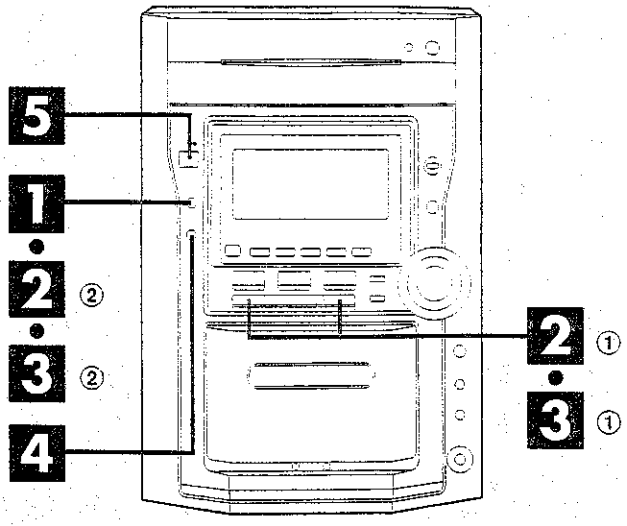
Using the timer

Using the play / record timer

The timer has two functions. It can be set to on at a certain time to wake you up, or it can be set to record the radio or from the aux source.
The play timer cannot be used in combination with the record timer.

Preparations:

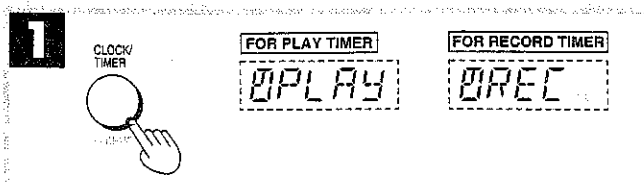
- Turn the unit on and set the clock (➡ page 10).
- **For the play timer**, prepare the music source you want to listen to; tape, CD, radio or aux, and set the volume.
- **For the record timer**, check the cassette's erasure prevention tabs (➡ page 19: B), insert the tape in deck, select the reverse mode (➡ page 20) and tune to the radio station (➡ page 16) or select the aux source (➡ page 25).



1 **Press [CLOCK/TIMER] to select the timer function.**
Every time you press the button:

CLOCK → ⏲PLAY → ⏲REC
↳ Previous display ↵

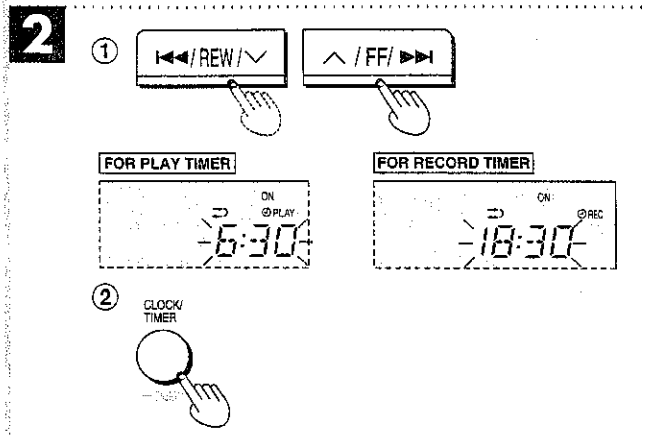
⏲PLAY : to set the play timer
⏲REC : to set the record timer



Setting the start and finish times

2 **(Within 8 seconds or so)**
① **Press [I◀◀/REW/∨] or [∧/FF/▶▶I] to select the starting time.**
② **Press [CLOCK/TIMER].**

3 ① **Press [I◀◀/REW/∨] or [∧/FF/▶▶I] to select the finishing time.**
② **Press [CLOCK/TIMER].**
The start and finish times are now set.



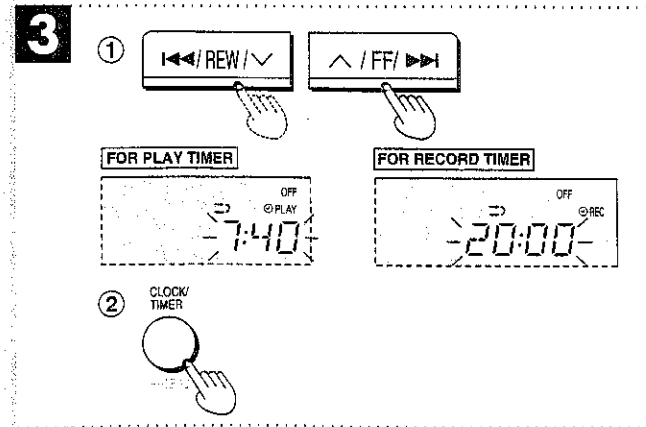
Turning the timer on

4 **Press [⏲PLAY/⏲REC].**

Every time you press the button:

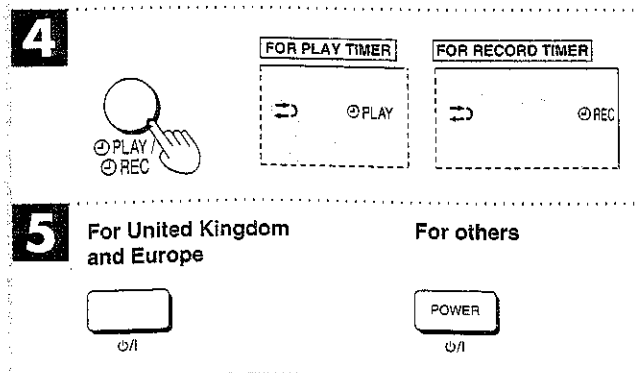
⏲PLAY → ⏲REC
↳ (OFF) ↵

⏲PLAY : to turn the play timer on
⏲REC : to turn the record timer on



5 **Press [⏻/I] to turn the unit off.**
The unit must be off for the timers to operate.

- **For play timer**
  The timer play will start at the preset time with volume increasing gradually up to the volume level you preset.
- **For record timer**
  The record timer comes on about 30 seconds earlier than the set time.

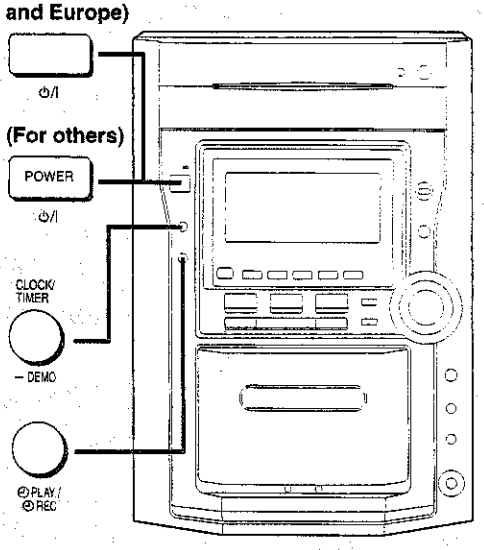


To cancel the timer
Press [⏲PLAY/⏲REC] to clear the timer indicators from the display.
The timer comes on at the set time everyday if the timer is on.

To change the settings (when unit is on)

- **To change the play/record times**
  Do steps 1, 2, 3 and 5.
- **To change the source or volume**
  1. Press [⏲PLAY/⏲REC] to clear the timer indicator from the display.
  2. Make changes to the source or volume.
  3. Do steps 4 to 5.

(Continued on next page)



Using the timer

Using the play/record timer

To change the timer

Press [⏲PLAY/⏲REC] to select the desired timer. (when the unit is on)

Every time the button is pressed the setting changes as follows:

⏲PLAY → ⏲REC
↑ (OFF) ←

To check settings

While the unit is on and the "⏲PLAY" (or "⏲REC") indicator is on, press [CLOCK/TIMER] so "⏲PLAY" (or "⏲REC") appears on the display.

Two seconds after "⏲PLAY" (or "⏲REC") appear, the settings are displayed in the following order:

- For play timer
  1. Play start time
  2. Play finish time
  3. Play source
  4. Playback volume
- For record timer
  1. Recording start time
  2. Recording finish time
  3. Recording source

You can check the settings even when the system is OFF by pressing [CLOCK/TIMER].

To enjoy the desired source after the timer setting is completed

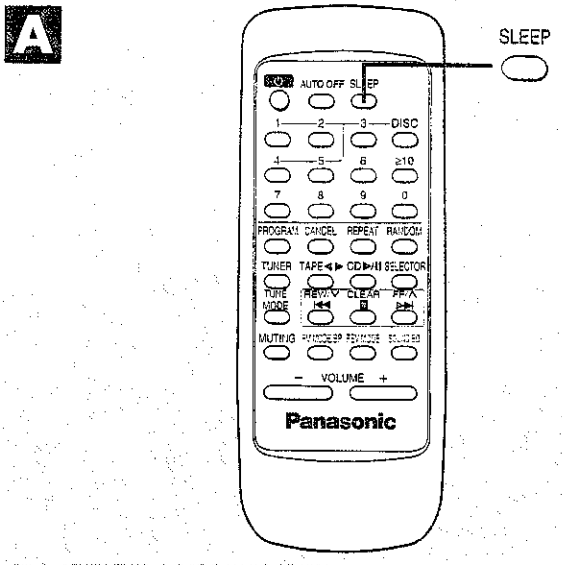
The volume level (for play timer) and music source are stored in the timer memory and the timer will start in these preset conditions. However, the Disc numbers and reverse mode do not get stored in the timer memory.

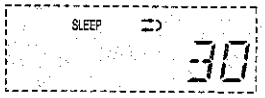
1. After step 4, start playing the desired source.
2. Reset the Disc numbers and reverse mode if you have changed any of them, confirm that a Disc or cassette is inserted, then press [⏻/I] to put the unit on standby.

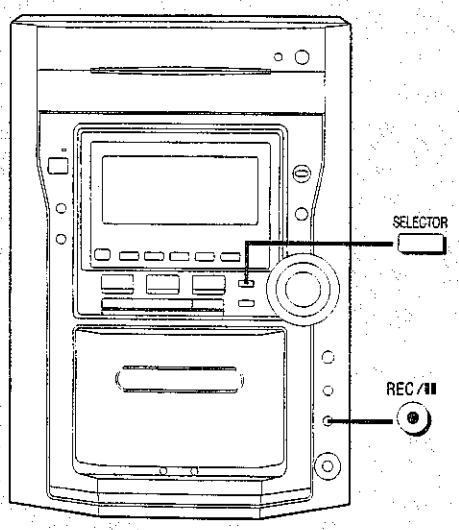
Notes

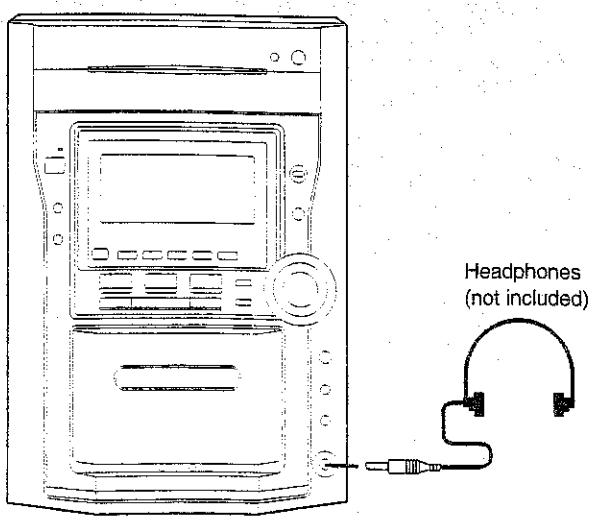
- If you switch the system to the standby mode while the play/record timer is functioning, the OFF time setting will not be activated.
- If AUX is selected as the source, when the timer comes ON, the system will turn ON and will engage "AUX" as the source. If you want to playback or record from a connected component, set the component's timer to the same time. (See the instruction manual that came with the component.)

Using the timer









A Using the sleep timer

This timer turns your system OFF at the set time (Max. 2 hours, settable at 30-minute intervals). It lets you fall asleep listening to music.

by remote control only

Preparation:

Switch on the unit.

The figure shows how to set the system to standby mode after 30 minutes.

While enjoying the desired source:

Press [SLEEP] to select the desired time.

Every time you press the button:

→ 30 → 60 → 90 → 120 → OFF

The system is turned off after the set time has elapsed.

To cancel the sleep timer:
Press [SLEEP] to select "OFF".

To confirm the remaining time:
(only while system is ON)
Press [SLEEP].

To change the time remaining during operation:
Press [SLEEP] to show the remaining time then press [SLEEP] to select the desired time.

Notes

- The sleep timer turns OFF automatically the moment you attempt to edit-record a CD using CD Manager function.
- The sleep timer can be used in combination with the play/record timer.
  The sleep timer always has priority.
  Be sure not to overlap timer settings.

B Using an external unit

Listening to an external source

(See page 7 for external unit connection)

1. Press [⏻/I] to turn the unit on.
2. Press [SELECTOR] to select "AUX".
   Every time you press the button:

   CD → TAPE → TUNER → AUX

3. Start playback from the external source. (For details, refer to the owner's manual of the equipment.)

Recording from an external source

1. Follow steps 1–3 on page 20.
2. Press [SELECTOR] to select "AUX".
3. Press [● REC/II] (recording starts).
4. Start playback from the external source. (For details, refer to the owner's manual of the equipment.)

C Listening with headphones

Reduce the volume level, and connect the headphones.
Plug type: 3.5 mm stereo

Note

Avoid listening for prolonged periods of time to prevent hearing damage.

Troubleshooting guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized Service Centers (enclosed with this unit) to locate a convenient service center, or consult your dealer for instructions.

Reference pages are shown as black circled numbers ❻.

Common Problems

No sound.	Turn the volume up. The speaker cables may be shorted. Turn the unit off, check and correct the connections and turn the unit on. ❺
Sound is unfixed, reversed or comes from one speaker only.	Check the speaker connections. ❺
Humming heard during play.	An AC mains lead or fluorescent light is near the cables. Keep other appliances and cords away from this unit's cables. If possible in your area, turn the AC mains lead plug or connector over to reverse the plug's polarity.
"ERROR" is displayed.	Incorrect operation performed. Read the instructions and try again.
"– –:– –" appears on the display.	You plugged the mains lead in for the first time or there was a power failure recently. Set the time. ⓳
"F61" is displayed.	Check and correct the speaker cords connection. If this does not fix the problem, there is a power supply problem. Consult the dealer.

Listening to the radio

Noise is heard. **The stereo indicator flickers or doesn't light.** **Sound is distorted.**	Use an outdoor antenna. ❼
A beat sound is heard.	Turn the TV off or separate it from the unit.
A low hum is heard during AM broadcasts.	Separate the antenna from other cables and cords.

Where there is a television set nearby

The picture on the TV disappears or stripes appear on the screen.	The location and orientation of the antenna are incorrect. If you are using an indoor antenna, change to an outdoor antenna. The TV antenna wire is too close to the unit. Separate the antenna wire of the TV set from the unit.

Using the cassette deck

Poor quality sound.	Clean the heads. **Back cover**
Recording is not possible.	If the erasure prevention tabs have been removed, cover the holes with adhesive tape. ⓳

Playing discs

The display is wrong or play won't start.	The disc may be upside down. ⓬ Wipe the disc. Replace the disc if it is scratched, warped, or non-standard. Condensation may have formed inside the unit due to a sudden change in temperature. Wait about an hour for it to clear and try again.
"TAKE OUT/DISC" appears on the display.	There is a problem with the disc mechanism. (A power failure may have occurred.) The tray will open automatically. Remove the disc from the tray, and after ensuring there is no disc in the tray, close it. The unit will make the disc changing noises for a few moments and then it should operate normally.

The remote control

The remote control doesn't work.	Check the batteries are inserted correctly. ❺ Replace the batteries if they are worn.

Techincal specifications

AMPLIFIER SECTION

RMS power output	
THD 10%, both channels driven	50 W per channel (6 Ω)
Input sensitivity	
AUX	250 mV
Input impedance	
AUX	13 kΩ

FM TUNER SECTION

Frequency range	87.50 – 108.00 MHz (0.05 MHz steps)
(For United Kingdom and Europe)	
Sensitivity	1.8 µV (IHF)
S/N 26 dB	1.5 µV
(For Australia and New Zealand)	
Sensitivity	2.5 µV (IHF)
S/N 26 dB	2.2 µV
Antenna terminal(s)	75 Ω (unbalanced)

AM TUNER SECTION

Frequency range	
AM	522 – 1629 kHz (9 kHz steps)
Sensitivity	
AM	
S/N 20 dB (at 999 kHz)	560 µV/m

CASSETTE DECK SECTION

Track system	4 track, 2 channel
Heads	
Record/playback	Solid permalloy head
Erasure	Double gap ferrite head
Motor	DC servo motor
Recording system	AC bias 100 kHz
Erasing system	AC erase 100 kHz
Tape speed	4.8 cm/s
Frequency response	
(+3 dB, –6 dB at DECK OUT)	
NORMAL (TYPE I)	50 Hz – 13 kHz
HIGH (TYPE II)	50 Hz – 13 kHz
S/N	50 dB (A weighted)
Wow and flutter	0.18% (WRMS)
Fast forward and rewind time	Approx. 120 seconds with C-60 cassette tape

CD SECTION

Sampling frequency	44.1 kHz
Decoding	16 bit linear
Beam source/wave length	Semiconductor laser/780 nm
Number of channels	Stereo
Frequency response	20 Hz–20 kHz (+1, –2 dB)
Wow and flutter	Below measurable limit
Digital filter	8 fs
D/A converter	MASH (1 bit DAC)
Bølgelengde	780 nm
Laser-styrke	Ingen farlig strålning sendes ut

SPEAKER SECTION

Type	2 way speaker system
Speaker(s)	
Woofer	12 cm cone type
Tweeter	6 cm cone type
Impedance	6 Ω
Input power	100 W (Music)
Output sound pressure level	84 dB/W (1.0 m)
Cross over frequency	5 kHz
Frequency range	50 Hz–22 kHz (–16 dB) 65 Hz–20 kHz (–10 dB)
Dimensions (WxHxD)	150 x 260 x 267 mm
Mass	2.5 kg

GENERAL

Power supply	
For Europe	AC 230 V, 50 Hz
For others	AC 230 – 240 V, 50 Hz
Power consumption	120 W
Standby	0.9 W
Dimensions (WxHxD)	200 x 260 x 345 mm
Mass	5.6 kg

Notes:

1. Specifications are subject to change without notice. Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

Maintenance

If the surfaces are dirty

To clean this unit, wipe with a soft, dry cloth.
If the surfaces are extremely dirty, use a soft cloth dipped in a soap-and-water solution or a weak detergent solution.

- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.

For a cleaner, crisper sound

Clean the heads regularly to assure good quality playback and recording.
Use a cleaning tape (not included).